

# General Catalogue

Reliable made affordable







## About Himel

Himel is a multinational manufacturer and provider of electrical products successfully combining global expertise with local knowledge.

Founded by a Spanish entrepreneur in 1958, the company pioneered in exporting quality electrical enclosures, establishing Himel brand globally. Today, our global footprint and technology enable us to provide the best combination of affordable and reliable offers for Low Voltage Power distribution, Industry Automation and Home Electric to our long-term customers and partners in over 50 countries where we are present.

**Himel. Reliable made affordable**



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**VICTOR MANAGEMENT**  
General Purpose Variable Speed Drives

**EXPERT Compact**  
Range Presentation

**Features**

- Compact design
- Wide speed range
- High torque capability
- Integrated braking resistor

**Selection Data**

| Range name   | Input     | Power range | Drive type |
|--------------|-----------|-------------|------------|
| <b>HAVXC</b> | <b>4T</b> | <b>0007</b> | <b>G</b>   |

**EXPERT Standard**  
Range Presentation

**Features**

- Standard modular architecture
- Wide speed range
- High torque capability
- Integrated braking resistor

**Selection Data**

| Range name   | Input     | Power range | Drive type |
|--------------|-----------|-------------|------------|
| <b>HAVXS</b> | <b>4T</b> | <b>0007</b> | <b>G</b>   |

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View all EXPERT Standard

**HAVXS4T0450G0550P**

Variable speed drive, EXPERT-Standard, 45 kW, 380 V, 3 phase, standard

Download HAVXS4T0450G0550P product datasheet

Characteristics Documents and Downloads Technical FAQs

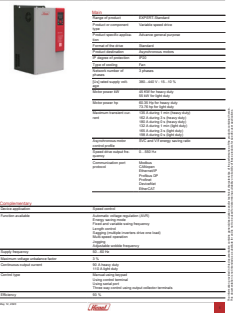
Main

|                              |                         |
|------------------------------|-------------------------|
| range of product             | EXPERT-Standard         |
| product or component type    | Variable speed drive    |
| product specific application | Advance general purpose |

**Product data sheet**

**HAVXS4T0450G0550P**

Variable speed drive, EXPERT-Standard, 45 kW, 380 V, 3 phase, standard





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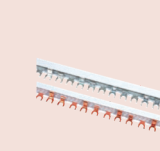
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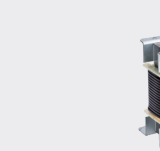
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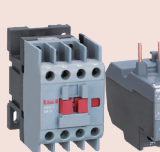


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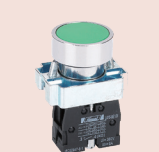


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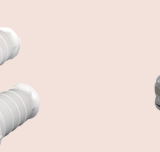
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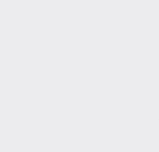
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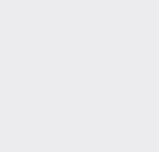
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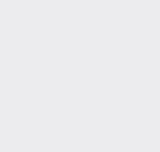
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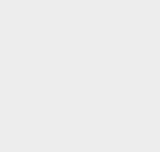
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# FINAL DISTRIBUTION



## 3 Series

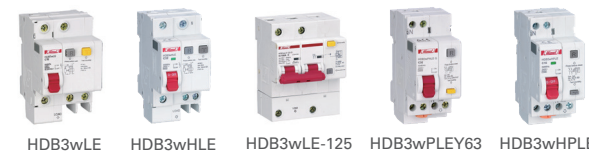
### 3 Series Miniature Circuit Breakers



Rated current: 1-125A  
Pole: 1P/1P+N/2P/3P/3P+N/4P  
Breaking capacity: 6kA

003

### 3 Series RCBO



Rated current: 6A-63A  
Pole: 1P+N/2P/3P/3P+N/4P  
Breaking capacity: 6kA

005

### 3 Series RCCB & Switch Disconnectors



Rated current: 10A-100A  
Pole: 2P/4P

Rated current: 20A-125A  
Pole: 1P/2P/3P/4P

007-008

### 3 Series Accessories



009

## 9 Series

### 9 Series Miniature Circuit Breakers



Rated current: 1-63A  
Pole: 1P/2P/3P/4P  
Breaking capacity: 6kA, 10kA

010

### 9 Series RCBO



Rated current: 6A-63A  
Pole: 1P+N/2P/3P/3P+N/4P  
Breaking capacity: 6kA

012

### 9 Series Switch Disconnectors



Rated current: 32A-125A  
Pole: 1P/2P/3P/4P

014

### 9 Series Accessories



015

# FINAL DISTRIBUTION

### HDBK Plug in Miniature Circuit Breakers NEW



HDBK

Rated current: 6-63A  
Pole: 1P/2P/3P  
Breaking capacity: 6kA, 10kA

016

### HDPZ50 Consumer Boxes



HDPZ50

Rated current: 100A  
Protection grade: IP30  
Material: Full plastic/metal

017

### HJXF Metal Enclosures



HJXF

Thickness: 1.0-1.5mm  
Protection grade: IP43/IP54  
Material: Metal

019

### HBBT Comb Busbars



HBBT

Pole: 1P/2P/3P/4P  
Material of busbar: E-CU-F25  
Type: PIN-type/U-type

021

### HDCH8S Modular Contactors



HDCH8S

Rated current: 16A-63A  
Pole: 2P/3P/4P

022

### HDJS18 Time Relays



HDJS18

Rated conventional thermal current: 10A  
Control voltage: AC: 220V, 110V (customized), 380V (customized)  
AC/DC: 24V  
Time delay: 5s, 10s, 30s, 60s, 120s, 180s, 360s, 480s  
Time-delay method: Switch-on delay, off delay

023

### HDY3 Surge Protective Devices



HDY3

Type 2  
Max discharge current:  
20KA,40KA,65KA,80KA,120KA,160KA  
Pole: 1P/1P+N/2P/3P/3P+N/4P

024

### HKG Digital Time Switches



HKG

Rated control voltage: HKG316T: 230/400V AC  
HKG316TD: 230/380V AC

025



FINAL DISTRIBUTION

3 Series MCB

Standard: IEC/EN 60898-1



Range Presentation

HDB3w series is Himel 3 series range of Miniature Circuit Breakers designed to protect the power system from short circuit and overload faults.

3 series MCB is mainly used in commercial and residential buildings, including 18mm AC MCB, 27mm AC MCB, phase neutral MCB, and DC MCB.

Features

- ◆ Full product range: AC and DC MCB, from 1 to 125A
- ◆ MCB without or with indicator window (H series) to display tripping status.
- ◆ DPN: Phase neutral MCB in single pole
- ◆ Smart design: Complete range of accessories with convenient mounting hole
- ◆ HDB3w, HDB3wH: SNI (Indonesia)
- ◆ HDB3w, HDB3wH: PS MARK (Philippines)
- ◆ HDB3wH: SIRIM (Malaysia)
- ◆ HDB3wH, HDB3w-125: TSE (Turkey)

Selection Code

| Range name                                                                               | Breaking capacity                             | Number of poles                                        | Tripping type                       | Rated current                                                                                                       |                                                                                      |
|------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| HDB3w                                                                                    | N                                             | 3                                                      | C                                   | 10                                                                                                                  |                                                                                      |
| HDB3w: MCB without indicator<br>HDB3wH: MCB with indicator                               | N: 6kA                                        | 1: 1P<br>2: 2P<br>3: 3P<br>4: 4P<br>5: 1P+N<br>6: 3P+N | B: Type B<br>C: Type C<br>D: Type D | 1: 1A<br>2: 2A<br>3: 3A<br>4: 4A<br>6: 6A<br>10: 10A<br>16: 16A                                                     | 20: 20A<br>25: 25A<br>32: 32A<br>40: 40A<br>50: 50A<br>63: 63A                       |
| HDB3w125: 27mm MCB with indicator, up to 125A                                            | N: 6kA<br>H: 10KA                             | 1: 1P<br>2: 2P<br>3: 3P<br>4: 4P                       | B: Type B<br>C: Type C<br>D: Type D | 63: 63A<br>80: 80A<br>100: 100A<br>125: 125A                                                                        |                                                                                      |
| HDB3wP: Phase Neutral MCB without indicator<br>HDB3wHP: Phase Neutral MCB with indicator | N: 4.5kA (HDB3wP)<br>Default: 4.5kA (HDB3wHP) | Default: all are 1P+N in single pole                   | C: Type C<br>D: Type D              | 6: 6A<br>10: 10A<br>20: 20A                                                                                         | 25: 25A<br>32: 32A<br>40: 40A                                                        |
| HDB3wZ: DC MCB (Direct Current) without indicator                                        | Default: 6kA (1P: 250V, 2/3P: 500V)           | 1: 1P<br>2: 2P<br>3: 3P                                | B: Type B<br>C: Type C              | 1: 1A (Type C)<br>2: 2A (Type C)<br>3: 3A (Type C)<br>4: 4A (Type C)<br>5: 5A (Type C)<br>6: 6A<br>8: 8A<br>10: 10A | 13: 13A<br>16: 16A<br>20: 20A<br>25: 25A<br>32: 32A<br>40: 40A<br>50: 50A<br>63: 63A |

Online Content



HDB3w



HDB3wH



HDB3w-125



HDB3wP



HDB3wHP



HDB3wZ

FINAL DISTRIBUTION

3 Series MCB

Standard: IEC/EN 60898-1



| Technical Parameters                                 |                                                       |                                               |                                                               |                                                         |                                       |                                                               |
|------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------|---------------------------------------------------------------|
| MCB                                                  | HDB3w                                                 | HDB3wH                                        | HDB3w-125                                                     | HDB3wP                                                  | HDB3wHP                               | HDB3wZ                                                        |
| Description                                          | 18mm Miniature Circuit Breaker without indicator      | 18mm Miniature Circuit Breaker with indicator | 27mm Miniature Circuit Breaker with indicator                 | 18mm Phase Neutral MCB without indicator                | 18mm Phase Neutral MCB with indicator | 18mm DC MCB without indicator                                 |
| Indication: red and green tripping indication window | No                                                    | Yes                                           | Yes                                                           | No                                                      | Yes                                   | No                                                            |
| Electrical characteristics                           |                                                       |                                               |                                                               |                                                         |                                       |                                                               |
| Standard                                             | IEC 60898-1                                           |                                               | IEC 60947-2                                                   | IEC 60898-1                                             |                                       | IEC60947-2                                                    |
| Certificate                                          | CE, TUV, CB, ROHS                                     |                                               | CE, CB, TUV, ROHS                                             | CE, CB, TUV, ROHS                                       |                                       | CE, CB, ROHS                                                  |
| Rated insulation voltage Ui                          | 500V                                                  |                                               | 500V                                                          | 500V                                                    |                                       | 500V                                                          |
| Frequency                                            | 50/60Hz                                               |                                               | 50/60Hz                                                       | 50/60Hz                                                 |                                       | /                                                             |
| Rated operational voltage Ue                         | 240 (1P, 1P+N)<br>415V (2P, 3P, 4P, 3P+N)             |                                               | 230V (1P)<br>400V (2P, 3P, 4P)                                | 240V                                                    |                                       | DC 250V (1P)<br>DC 500V (2P/3P)                               |
| Rated short-circuit capacity Icn                     | 6kA                                                   |                                               | 6kA<br>10kA                                                   | 4.5kA                                                   |                                       | 6kA                                                           |
| Rated impulse withstand voltage Uimp                 | 4kV                                                   |                                               | 4kV                                                           | 4kV                                                     |                                       | 4kV                                                           |
| Pollution class                                      | 2                                                     |                                               | 2                                                             | 2                                                       |                                       | 2                                                             |
| Isolation function                                   | Yes                                                   |                                               | Yes                                                           | Yes                                                     |                                       | Yes                                                           |
| Tripping characteristics                             | B, C, D Type                                          |                                               | B, C, D Type                                                  | C, D Type                                               |                                       | B, C Type                                                     |
| Mechanical characteristics                           |                                                       |                                               |                                                               |                                                         |                                       |                                                               |
| Mechanical endurance                                 | 25000                                                 |                                               | 8500 (In ≤ 100A)<br>7000 (In > 100A)                          | 10000                                                   |                                       | 20000                                                         |
| Electrical endurance                                 | 6000                                                  |                                               | 1500 (In ≤ 100A)<br>1000 (In > 100A)                          | 4000                                                    |                                       | 3000                                                          |
| Protection class                                     | IP40(Installed in DB box)<br>IP20(Installed directly) |                                               | IP40<br>(Installed in DB box)<br>IP20<br>(Installed directly) | IP40 (Installed in DB box)<br>IP20 (Installed directly) |                                       | IP40<br>(Installed in DB box)<br>IP20<br>(Installed directly) |
| Mechanical shock resistance                          | 30g, 3 shocks, lasting 11ms                           |                                               | 30g, 3 shocks, lasting 11ms                                   | 30g, 3 shocks, lasting 11ms                             |                                       | 30g, 3 shocks, lasting 11ms                                   |
| Rated ambient temperature                            | 30℃                                                   |                                               | 30℃                                                           | 30℃                                                     |                                       | 30℃                                                           |
| Operating ambient temperature                        | -20℃ ~+60℃                                            |                                               | -20℃ ~+60℃                                                    | -20℃ ~+60℃                                              |                                       | -20℃ ~+60℃                                                    |
| Storage temperature                                  | -40℃ ~+70℃                                            |                                               | -40℃ ~+70℃                                                    | -40℃ ~+70℃                                              |                                       | -40℃ ~+70℃                                                    |
| Installation features                                |                                                       |                                               |                                                               |                                                         |                                       |                                                               |
| Maximum wiring capacity                              | 25mm²                                                 |                                               | 50mm²                                                         | 16mm²                                                   |                                       | 25mm²                                                         |
| Maximum torque                                       | 2.5N.m                                                |                                               | 3.5N.m                                                        | 1.5N.m                                                  |                                       | 2.5N.m                                                        |
| Tool                                                 | Cross head screwdriver or flat head screwdriver       |                                               | Cross head screwdriver or flat head screwdriver               | Cross head screwdriver or flat head screwdriver         |                                       | Cross head screwdriver or flat head screwdriver               |
| Installation                                         | 35mm DIN rail                                         |                                               | 35mm DIN rail                                                 | 35mm DIN rail                                           |                                       | 35mm DIN rail                                                 |
| Line incoming type                                   | Top or bottom                                         |                                               | Top or bottom                                                 | Top or bottom                                           |                                       | Top or bottom                                                 |



3 Series RCBO

Standard: IEC/EN 61009-1



Range Presentation

HDB3wLE series is the Himel 3 series range of Residual Current operated circuit breakers (RCBO) designed to protect people and power system from short circuit, overload faults and earth leakage.

3 series RCBO is mainly used in commercial and residential buildings including standard RCBO and phase neutral RCBO.

Selection Code

| Range name                                                                                                    | Breaking capacity                                        | Number of poles                                                                  | Tripping type                        | Rated current                                                                                                                                                           | Residual current                                                                                         | Over-voltage protection                                                  |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>HDB3wLE</b>                                                                                                | <b>N</b>                                                 | <b>1</b>                                                                         | <b>C</b>                             | <b>6</b>                                                                                                                                                                | <b>R50</b>                                                                                               | <b>G</b>                                                                 |
| <b>HDB3wLE:</b> RCBO without indicator<br><b>HDB3wHLE:</b> RCBO with indicator                                | <b>N:</b> 6kA                                            | <b>1:</b> 1P+N<br><b>2:</b> 2P<br><b>3:</b> 3P<br><b>4:</b> 4P<br><b>6:</b> 3P+N | <b>C:</b> Type C<br><b>D:</b> Type D | <b>6:</b> 6A<br><b>10:</b> 10A<br><b>16:</b> 16A<br><b>20:</b> 20A<br><b>25:</b> 25A<br><b>32:</b> 32A<br><b>40:</b> 40A<br><b>50:</b> 50A<br><b>63:</b> 63A            | <b>Default:</b> 30mA<br><b>R50:</b> 50mA<br><b>R75:</b> 75mA<br><b>R100:</b> 100mA<br><b>R300:</b> 300mA | <b>Default:</b> NO<br><b>G:</b> Over-voltage protection                  |
| <b>HDB3WLE125:</b> RCBO with indicator, up to 125A                                                            | <b>Default:</b> 10kA                                     | <b>1:</b> 1P+N<br><b>2:</b> 2P<br><b>3:</b> 3P<br><b>4:</b> 4P<br><b>6:</b> 3P+N | <b>C:</b> Type C<br><b>D:</b> Type D | <b>63:</b> 63A<br><b>80:</b> 80A<br><b>100:</b> 100A<br><b>125:</b> 125A                                                                                                | <b>Default:</b> 30mA<br><b>W:</b> 50mA<br><b>Q:</b> 75mA<br><b>Y:</b> 100mA<br><b>T:</b> 300mA           | <b>Default:</b> NO<br><b>G:</b> Over-voltage protection                  |
| <b>HDB3wPLEY63:</b> Phase netral RCBO without indicator<br><b>HDB3wHPLE:</b> Phase netral RCBO with indicator | <b>Default:</b> 4.5kA<br><b>A:</b> 3kA<br>HDB3wHPLE only | <b>Default:</b> 1P+N                                                             | <b>C:</b> Type C<br><b>D:</b> Type D | <b>6:</b> 63A<br><b>10:</b> 10A<br><b>16:</b> 16A<br><b>20:</b> 20A<br><b>32:</b> 32A<br><b>40:</b> 40A<br><b>50:</b> 50A (PLEY63 only)<br><b>63:</b> 63A (PLEY63 only) | <b>Default:</b> 30mA                                                                                     | <b>Default:</b> NO<br><b>G:</b> Over-voltage protection (Only HDB3wHPLE) |

Online Content



HDB3wLE



HDB3wHLE



HDB3wLE-125



HDB3wPLEY63



HDB3wHPLE

3 Series RCBO

Standard: IEC/EN 61009-1



| Technical Parameters                                 |                                                                     |               |                                                         |                                                         |                                                         |
|------------------------------------------------------|---------------------------------------------------------------------|---------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| RCBO                                                 | HDB3wLE                                                             | HDB3wHLE      | HDB3wLE-125                                             | HDB3wPLEY63                                             | HDB3wHPLE                                               |
| Indication: red and green tripping indication window | NO                                                                  | Yes           | Yes                                                     | NO                                                      | Yes                                                     |
| Electrical characteristics                           |                                                                     |               |                                                         |                                                         |                                                         |
| Standard                                             | IEC 61009-1                                                         |               | IEC 60947-2                                             | IEC 61009-1                                             | IEC 61009-1                                             |
| Certificate                                          | CE, ROHS (2P, 3P, 4P)                                               |               | CE, CB, ROHS                                            | CE, CB, TUV, ROHS                                       | CE, CB, TUV, ROHS                                       |
| Rated insulation voltage Ui                          | 500V                                                                |               | 500V                                                    | 500V                                                    | 500V                                                    |
| Frequency                                            | 50/60Hz                                                             |               | 50/60Hz                                                 | 50/60Hz                                                 | 50/60Hz                                                 |
| Rated operational voltage Ue                         | 230 (1P+N, 2P)<br>400V (3P, 4P, 3P+N)                               |               | 230 (1P+N, 2P)<br>400V (3P, 4P, 3P+N)                   | 240V                                                    | 240V                                                    |
| Rated short-circuit capacity Icn                     | 6kA                                                                 |               | 10kA                                                    | 4.5kA                                                   | 3kA<br>4.5kA                                            |
| Rated impulse withstand voltage Uimp                 | 4kV                                                                 |               | 4kV                                                     | 4kV                                                     | 4kV                                                     |
| Pollution class                                      | 2                                                                   |               | 2                                                       | 2                                                       | 2                                                       |
| Tripping type                                        | Thermal magnetic tripping                                           |               |                                                         |                                                         |                                                         |
| Isolation function                                   | YES                                                                 |               | YES                                                     | YES                                                     | YES                                                     |
| Rated residual operating current In                  | 30, 50, 75, 100, 300mA                                              |               | 30, 50, 75, 100, 300mA                                  | 30mA                                                    | 30mA                                                    |
| Tripping characteristics                             | C, D Type                                                           |               | C, DType                                                | C, DType                                                | C, DType                                                |
| Mechanical characteristics                           |                                                                     |               |                                                         |                                                         |                                                         |
| Mechanical endurance                                 | 25000                                                               |               | 8500                                                    | 4000                                                    | 4000                                                    |
| Electrical endurance                                 | 6000                                                                |               | 3000                                                    | 4000                                                    | 4000                                                    |
| Protection class                                     | IP40 (Installed in DB box)<br>IP20 (Installed directly)             |               | IP40 (Installed in DB box)<br>IP20 (Installed directly) | IP40 (Installed in DB box)<br>IP20 (Installed directly) | IP40 (Installed in DB box)<br>IP20 (Installed directly) |
| Mechanical shock resistance                          | 30g, 3 shocks, lasting 11ms                                         |               | 30g, 3 shocks, lasting 11ms                             | 30g, 3 shocks, lasting 11ms                             | 30g, 3 shocks, lasting 11ms                             |
| Rated ambient temperature                            | 30°C                                                                |               | 30°C                                                    | 30°C                                                    | 30°C                                                    |
| Operating ambient temperature                        | -20°C ~+60°C                                                        |               | -20°C ~+60°C                                            | -20°C ~+60°C                                            | -20°C ~+60°C                                            |
| Storage temperature                                  | -40°C ~+70°C                                                        |               | -40°C ~+70°C                                            | -40°C ~+70°C                                            | -40°C ~+70°C                                            |
| Installation features                                |                                                                     |               |                                                         |                                                         |                                                         |
| Maximum wiring capacity                              | Rated current 6~32A: 16mm <sup>2</sup><br>40~63A: 25mm <sup>2</sup> | Rated current | 50mm <sup>2</sup>                                       | 16mm <sup>2</sup>                                       | 16mm <sup>2</sup>                                       |
| Maximum torque                                       | Rated current 6~32A: 2N.m<br>40~63A: 2.5N.m                         | Rated current | 3.5N.m                                                  | 1.5N.m                                                  | 1.5N.m                                                  |
| Tool                                                 | Cross head screwdriver or flat head screwdriver                     |               | Cross head screwdriver or flat head screwdriver         | Cross head screwdriver or flat head screwdriver         | Cross head screwdriver or flat head screwdriver         |
| Installation                                         | 35mm DIN rail                                                       |               | 35mm DIN rail                                           | 35mm DIN rail                                           | 35mm DIN rail                                           |
| Line incoming type                                   | Top                                                                 |               | Top                                                     | Top                                                     | Top                                                     |



FINAL DISTRIBUTION

3 Series Switch Disconnectors

Standard: IEC/EN 60947-3



Range Presentation

HDG3 is the Himel 3 series range of switch disconnector designed to switch on and off the power system.

The 3 series switch disconnector is mainly used in commercial and residential buildings.

Features

- ◆ Full product portfolio from 20A to 125A
- ◆ Suitable to industry application

Online Content



HDG3

Selection Code

| Range name | Number of poles                  | Rated current                                                                                       |
|------------|----------------------------------|-----------------------------------------------------------------------------------------------------|
| HDG3       | 3                                | 32                                                                                                  |
| HDG3       | 1: 1P<br>2: 2P<br>3: 3P<br>4: 4P | 20: 20A    63: 63A<br>25: 25A    80: 80A<br>32: 32A    100: 100A<br>40: 40A    125: 125A<br>50: 50A |

| Technical Parameters                         |                                                      |
|----------------------------------------------|------------------------------------------------------|
| Switch Disconnectors                         | HDG3                                                 |
| Electrical characteristics                   |                                                      |
| Standard                                     | IEC 60947-3                                          |
| Certificate                                  | CE, CB, ROHS                                         |
| Rated insulation voltage Ui                  | 500V                                                 |
| Frequency                                    | 50/60Hz                                              |
| Rated operational voltage Ue                 | 230 (1P) 400V (2P, 3P, 4P)                           |
| Rated short-time withstand current Icw (kA)  | 20Ie/1s                                              |
| Rated short-circuit making capacity Icm (kA) | 28, 1Ie                                              |
| Rated impulse withstand voltage Uimp         | 4kV                                                  |
| Pollution class                              | 2                                                    |
| Isolation function                           | Yes                                                  |
| Mechanical characteristics                   |                                                      |
| Mechanical endurance                         | 8500(≤100A) 7000(125A)                               |
| Electrical endurance                         | 3000                                                 |
| Protection class                             | IP40 (Installed in DB box) IP20 (Installed directly) |
| Mechanical shock resistance                  | 30g, 3 shocks, lasting 11ms                          |
| Rated ambient temperature                    | 30°C                                                 |
| Operating ambient temperature                | - 20°C ~ + 60°C                                      |
| Storage temperature                          | - 40°C ~ + 70°C                                      |
| Installation Features                        |                                                      |
| Maximum wiring capacity                      | 25mm²                                                |
| Maximum torque                               | 2.5N.m                                               |
| Installation                                 | 35mm DIN rail                                        |
| Line incoming type                           | Top or bottom                                        |

FINAL DISTRIBUTION

3 Series RCCB

Standard: IEC/EN 61008-1



Range Presentation

HDB3VR is Himel 3 series range of Residual current circuit breaker(RCCB) designed to protect people and power system form earth leakage.

HDB3VR RCCB can be widely used in commercial and residential building.

Features

- ◆ Full range from 10A to 100A
- ◆ 4 Residual current sensitivity: 10mA, 30mA, 100mA, and 300mA
- ◆ Two types for application: AC type and A type
- ◆ HDB3VR: Safety mark (Singapore) TSE (Turkey)
- ◆ SNI (Indonesia)

Online Content



HDB3VR

Selection Code

| Range name                               | Number of poles | Rated current                                                               | Residual current                           | Type                   |
|------------------------------------------|-----------------|-----------------------------------------------------------------------------|--------------------------------------------|------------------------|
| HDB3VR                                   | 2               | 10                                                                          | L                                          | C                      |
| HDB3VR :<br>Electromagnetic<br>Type RCCB | 2: 2P<br>4: 4P  | 10: 10A<br>16: 16A<br>25: 25A<br>40: 40A<br>63: 63A<br>80: 80A<br>100: 100A | L: 10mA<br>S: 30mA<br>Y: 100mA<br>T: 300mA | C: ACType<br>A: A Type |

| Technical Parameters                 |                                                                            |
|--------------------------------------|----------------------------------------------------------------------------|
| RCCB                                 | HDB3VR                                                                     |
| Electrical characteristics           |                                                                            |
| Standard                             | IEC 61008-1                                                                |
| Certificate                          | CE, TUV, ROHS                                                              |
| Rated insulation voltage Ui          | 500V                                                                       |
| Frequency                            | 50/60Hz                                                                    |
| Rated operational voltage Ue         | 240 (2P) 415V (4P)                                                         |
| Rated short-circuit capacity Icn     | 6kA                                                                        |
| Rated impulse withstand voltage Uimp | 4kV                                                                        |
| Pollution class                      | 2                                                                          |
| Type                                 | A , ACType                                                                 |
| Isolation function                   | Yes                                                                        |
| Rated residual operating current IΔn | 10, 30, 100, 300mA                                                         |
| Mechanical characteristics           |                                                                            |
| Endurance                            | Mechanical endurance: 8500(≤100A) 7000(125A)<br>Electrical endurance: 3000 |
| Protection class                     | IP40 (Installed in DB box) IP20 (Installed directly)                       |
| Mechanical shock resistance          | 30g, 3 shocks, lasting 11ms                                                |
| Rated ambient temperature            | 30°C                                                                       |
| Operating ambient temperature        | - 20°C ~ + 60°C                                                            |
| Storage temperature                  | - 40°C ~ + 70°C                                                            |
| Installation Features                |                                                                            |
| Maximum wiring capacity              | 25mm² (≤63A) 35mm² ( > 63A)                                                |
| Maximum torque                       | Rated current 6-32A: 2.5N.m Rated current 40-63A: 3N.m                     |
| Installation                         | 35mm DIN rail                                                              |
| Line incoming type                   | Top or bottom                                                              |

FINAL DISTRIBUTION

3 Series Accessories for MCB & RCBO

Standard: IEC/EN 60947

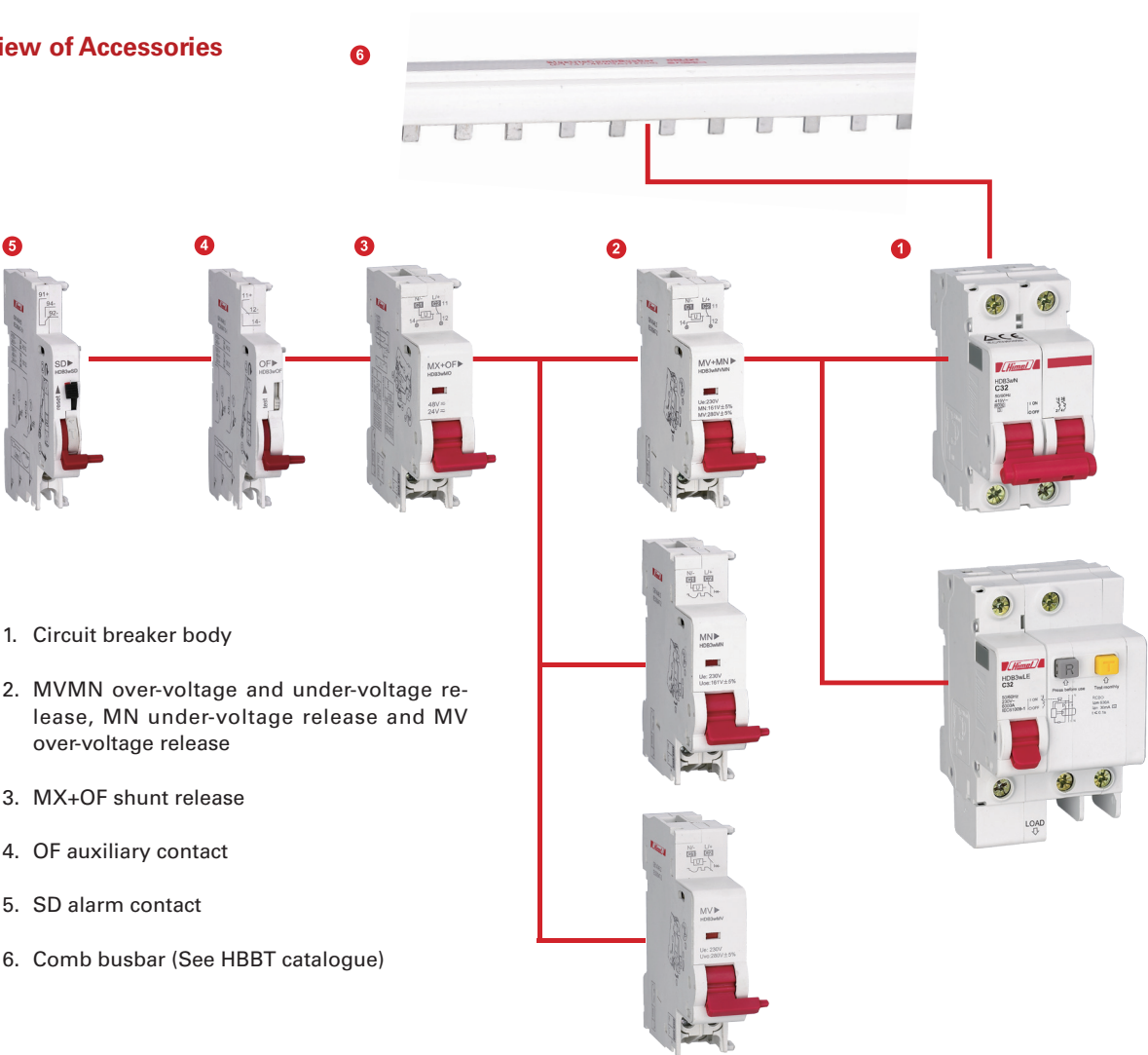


Compatible with HDB3w, HDB3wH, HDB3wP, HDB3wHP, HDB3wLE, HDB3wHLE, HDB3wPLEY63, HDB3wHPLE

| Technical Parameters      |                               |                               |                                                                         |                                              |                       |                                        |
|---------------------------|-------------------------------|-------------------------------|-------------------------------------------------------------------------|----------------------------------------------|-----------------------|----------------------------------------|
| MCB Accessories           | OF                            | SD                            | MO                                                                      | MV                                           | MN                    | MVMN                                   |
| Description               | Auxiliary contact             | Alarm contact                 | Shunt release                                                           | Over-voltage release                         | Under-voltage release | Over-voltage and under-voltage release |
| Reference                 | HDB3wOF                       | HDB3wSD                       | HDB3wMO220<br>(AC 130-415V, DC 110-130V)<br>HDB3wMO24<br>(AC/DC 24-48V) | HDB3wMV                                      | HDB3wMN               | HDB3wMVMN                              |
| Rated voltage             | AC 240/415<br>DC 130V,48V,24V | AC 240/415<br>DC 130V,48V,24V | AC 130V~415V<br>DC 110~130V<br>AC/DC 24V-48V<br>(AC/DC 24~48V)          | AC 130V~415V<br>DC 110~130V<br>AC/DC 24V-48V | AC 240V               | AC 240V                                |
| Wiring capacity           | 1~2.5mm²                      | 1~2.5mm²                      | 1~2.5mm²                                                                | 1~2.5mm²                                     | 1~2.5mm²              | 1~2.5mm²                               |
| Width                     | 9mm                           | 9mm                           | 18mm                                                                    | 18mm                                         | 18mm                  | 18mm                                   |
| Installation side of MCB  | Left                          | Left                          | Left                                                                    | Left                                         | Left                  | Left                                   |
| Max installation quantity | 6                             | 3                             | 2                                                                       | 2                                            | 2                     | 2                                      |

Remark: Maximum width of the accessory assembly is 54mm

Overview of Accessories



FINAL DISTRIBUTION

9 Series MCB

Standard: IEC/EN 60898-1



Range Presentation

HDB9 series is Himel 9 series range of Miniature Circuit Breakers designed to protect the power system from short circuit and overload. HDB9 is Himel most advanced range of miniature circuit breaker.

9 series MCB can be widely used in commercial and residential buildings including 18mm AC MCB, phase neutral MCB, and DC MCB.

Features

- ◆ Breaking capacity up to 10kA
- ◆ Energy limiting class 3
- ◆ Standard open and close state indication window
- ◆ High performance
- ◆ HDB9: SNI (Indonesia) SIRIM (Malaysia) TSE (Turkey) PS MARK (Philippines)

Selection Code

| Range name                        | Breaking capacity                                                    | Number of poles                                        | Tripping type                       | Rated current                                                |                                                                |
|-----------------------------------|----------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|
| HDB9                              | N63A                                                                 | 3                                                      | C                                   | 10                                                           |                                                                |
| HDB9: MCB                         | N63A: 6kA<br>H63A: 10kA                                              | 1: 1P<br>2: 2P<br>3: 3P<br>4: 4P<br>5: 1P+N<br>6: 3P+N | B: Type B<br>C: Type C<br>D: Type D | 1: 1A<br>2: 2A<br>4: 4A<br>6: 6A<br>10: 10A<br>16: 16A       | 20: 20A<br>25: 25A<br>32: 32A<br>40: 40A<br>50: 50A<br>63: 63A |
| HDB9P:<br>Phase Neutral<br>MCB    | H: 6KA                                                               | Default:<br>all are 1P+N<br>in single pole             | C: Type C                           | 6: 6A<br>10: 10A<br>16: 16A<br>20: 20A<br>32: 32A<br>40: 40A |                                                                |
| HDB9Z: DC MCB<br>(Direct Current) | 63: 1P/2P<br>125V/250V(10kA)<br>1P/2P/4P<br>250V/500V/1000V<br>(6kA) | 1: 1P<br>2: 2P<br>4: 4P                                | B: BType<br>C: CType                | 1: 1A<br>2: 2A<br>4: 4A<br>6: 6A<br>10: 10A<br>16: 16A       | 20: 20A<br>25: 25A<br>32: 32A<br>40: 40A<br>50: 50A<br>63: 63A |

Online Content



HDB9



HDB9P



HDB9Z



9 Series MCB

Standard: IEC/EN 60898-1



| Technical Parameters                                    |                                                         |                                                         |                                                            |
|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------|
| MCB                                                     | HDB9                                                    | HDB9P                                                   | HDB9Z                                                      |
| Description                                             | 18mm Miniature circuit breaker                          | 18mm Phase neutral MCB                                  | 18mm DC miniature circuit breaker                          |
| Indication:<br>red and green tripping indication window | Yes                                                     | Yes                                                     | Yes                                                        |
| Electrical characteristics                              |                                                         |                                                         |                                                            |
| Standard                                                | IEC 60898-1                                             | IEC 60898-1                                             | IEC60947-2                                                 |
| Certificate                                             | CE, KEMA, CB, ROHS                                      | CE, CB,TUV, ROHS                                        | CE, CB, SEMKO, ROHS                                        |
| Rated insulation voltage Ui                             | 500V                                                    | 500V                                                    | 1000V                                                      |
| Frequency                                               | 50/60Hz                                                 | 50/60Hz                                                 | /                                                          |
| Rated operational voltage Ue                            | 230 (1P, 1P+N)<br>400V(2P, 3P, 3P+N, 4P)                | 240V                                                    | DC 125V, 250V (1P)<br>DC 250V, 500V (2P)<br>DC 1000V (4P)  |
| Rated short-circuit capacity Icn                        | 6kA<br>10kA                                             | 6kA                                                     | 10KA (125V/1P,250V/2P)<br>6kA (250V/1P, 500V/2P, 1000V/4P) |
| Rated impulse withstand voltage Uimp                    | 4kV                                                     | 4kV                                                     | 6kV                                                        |
| Pollution class                                         | 2                                                       | 2                                                       | 2                                                          |
| Isolation function                                      | Yes                                                     | Yes                                                     | Yes                                                        |
| Tripping characteristics                                | B, C, DType                                             | CType                                                   | B, C, DType                                                |
| Energy limiting class 3                                 | B, CType                                                | No                                                      | No                                                         |
| Mechanical characteristics                              |                                                         |                                                         |                                                            |
| Mechanical endurance                                    | 20000                                                   | 20000                                                   | 20000                                                      |
| Electrical endurance                                    | 10000                                                   | 10000                                                   | 3000                                                       |
| Protection class                                        | IP40 (Installed in DB box)<br>IP20 (Installed directly) | IP40 (Installed in DB box)<br>IP20 (Installed directly) | IP40 (Installed in DB box)<br>IP20 (Installed directly)    |
| Mechanical shock resistance                             | 30g, 3 shocks, lasting 11ms                             | 30g, 3 shocks, lasting 11ms                             | 30g, 3 shocks, lasting 11ms                                |
| Rated ambient temperature                               | 30°C                                                    | 30°C                                                    | 30°C                                                       |
| Operating ambient temperature                           | - 30°C ~ + 70°C                                         | - 30°C ~ + 70°C                                         | - 30°C ~ + 70°C                                            |
| Storage temperature                                     | - 40°C ~ + 70°C                                         | - 40°C ~ + 70°C                                         | - 40°C ~ + 70°C                                            |
| Installation Features                                   |                                                         |                                                         |                                                            |
| Maximum wiring capacity                                 | 25mm²                                                   | 16mm²                                                   | 25mm²                                                      |
| Maximum torque                                          | 2.5N.m                                                  | 1.5N.m                                                  | 2.5N.m                                                     |
| Tool                                                    | Cross head screwdriver or flat head screwdriver         | Cross head screwdriver or flat head screwdriver         | Cross head screwdriver or flat head screwdriver            |
| Installation                                            | 35mm DIN rail                                           | 35mm DIN rail                                           | 35mm DIN rail                                              |
| Line incoming type                                      | Top or bottom                                           | Top or bottom                                           | Top or bottom                                              |

9 Series RCBO

Standard: IEC/EN 61009-1



Range Presentation

HDB9LE series is Himel 9 series range of Residual current operated circuit breakers, designed to protect people and power system from short circuit, overload faults, earthlea kage.

9 series RCBO can be widely used in commercial and residential building, It includes electronic type and electromagnetic type (HDB9LM).

Features

- ◆ Multi-selection: Electronic or electromagnetic type.
- ◆ High performance: up to 6kA breaking capacity
- ◆ Standard open and close state indication

Selection Code

| Range name                         | Breaking capacity                                                      | Number of poles                               | Tripping type | Rated current                                                                                 | Residual current                |
|------------------------------------|------------------------------------------------------------------------|-----------------------------------------------|---------------|-----------------------------------------------------------------------------------------------|---------------------------------|
| HDB9LE                             | N63A                                                                   | 2                                             | C             | 6                                                                                             | R50                             |
| HDB9LE:<br>Electronic RCBO         | N32A: 6kA for<br>rating up to 32A<br>N63A: 6kA for<br>rating above 32A | 1: 1P+N<br>2: 2P<br>3: 3P<br>4: 4P<br>6: 3P+N | C: Type C     | 6: 6A<br>10: 10A<br>16: 16A<br>20: 20A<br>25: 25A<br>32: 32A<br>40: 40A<br>50: 50A<br>63: 63A | S: 30mA<br>Y: 100mA<br>T: 300mA |
| HDB9LM:<br>Electromagnetic<br>RCBO | 63: 6kA                                                                | 5: 1P+N<br>6: 3P+N                            | C: Type C     | 6: 6A<br>10: 10A<br>16: 16A<br>20: 20A<br>25: 25A<br>32: 32A<br>40: 40A<br>50: 50A<br>63: 63A | S: 30mA<br>T: 300mA             |
| HDB9PLE:<br>Phase Neutral<br>RCBO  | N: 6kA                                                                 | Default: 1P+N                                 | C: Type C     | 6: 6A<br>10: 10A<br>16: 16A<br>20: 20A<br>32: 32A<br>40: 40A                                  | L: 10mA<br>S: 30mA              |

Online Content



HDB9LE



HDB9LM



HDB9PLE

9 Series RCBO

Standard: IEC/EN 61009-1



| Technical Parameters                                    |                                                           |                                                         |                                                         |
|---------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| RCBO                                                    | HDB9LE                                                    | HDB9LM                                                  | HDB9PLE                                                 |
| Description                                             | Electronic RCBO                                           | Electromagnetic RCBO                                    | Electronic phase neutral RCBO                           |
| Indication:<br>red and green tripping indication window | Yes                                                       | Yes                                                     | Yes                                                     |
| Electrical characteristics                              |                                                           |                                                         |                                                         |
| Standard                                                | IEC 61009-1                                               | IEC 61009-1                                             | IEC 61009-1                                             |
| Certificate                                             | CE, ROHS (2P, 3P, 4P)                                     | CE, CB, TUV, RoHS                                       | CE, CB, TUV, RoHS                                       |
| Rated insulation voltage Ui                             | 500V                                                      | 500V                                                    | 500V                                                    |
| Frequency                                               | 50/60Hz                                                   | 50/60Hz                                                 | 50/60Hz                                                 |
| Rated operational voltage Ue                            | 230 (1P+N, 2P)<br>400V (3P, 4P, 3P+N)                     | 230 (1P+N)<br>400V (3P+N)                               | 240V                                                    |
| Rated short-circuit capacity Icn                        | 6kA                                                       | 6kA                                                     | 6kA                                                     |
| Rated impulse withstand voltage Uimp                    | 4kV                                                       | 4kV                                                     | 4kV                                                     |
| Pollution class                                         | 2                                                         | 2                                                       | 2                                                       |
| Tripping type                                           | Thermal magnetic tripping                                 | Thermal magnetic tripping                               | Thermal magnetic tripping                               |
| Isolation function                                      | Yes                                                       | Yes                                                     | Yes                                                     |
| Rated residual operating current IΔn                    | 30, 50, 75, 100, 300mA                                    | 30, 300mA                                               | 30mA                                                    |
| Tripping characteristics                                | C, DType                                                  | CType                                                   | C, DType                                                |
| Mechanical characteristics                              |                                                           |                                                         |                                                         |
| Mechanical endurance                                    | 20000                                                     | 20000                                                   | 20000                                                   |
| Electrical endurance                                    | 10000                                                     | 10000                                                   | 4000                                                    |
| Protection class                                        | IP40 (Installed in DB box)<br>IP20 (Installed directly)   | IP40 (Installed in DB box)<br>IP20 (Installed directly) | IP40 (Installed in DB box)<br>IP20 (Installed directly) |
| Mechanical shock resistance                             | 30g, 3 shocks, lasting 11ms                               | 30g, 3 shocks, lasting 11ms                             | 30g, 3 shocks, lasting 11ms                             |
| Rated ambient temperature                               | 30°C                                                      | 30°C                                                    | 30°C                                                    |
| Operating ambient temperature                           | - 30°C ~ + 70°C                                           | - 30°C ~ + 70°C                                         | - 30°C ~ + 70°C                                         |
| Storage temperature                                     | - 40°C ~ + 70°C                                           | - 40°C ~ + 70°C                                         | - 40°C ~ + 70°C                                         |
| Installation features                                   |                                                           |                                                         |                                                         |
| Maximum wiring capacity                                 | Rated current 6-32A: 16mm²<br>Rated current 40-63A: 25mm² | 25mm² ( < 40A)<br>35mm² ( ≥ 40A)                        | 16mm²                                                   |
| Maximum torque                                          | Rated current 6-32A: 2N.m<br>Rated current 40-63A: 2.5N.m | 3N.m ( < 40A)<br>3.5N.m ( ≥ 40A)                        | 1.5N.m                                                  |
| Tool                                                    | Cross head screwdriver or flat head screwdriver           | Cross head screwdriver or flat head screwdriver         | Cross head screwdriver or flat head screwdriver         |
| Installation                                            | 35mm DIN rail                                             | 35mm DIN rail                                           | 35mm DIN rail                                           |
| Line incoming type                                      | Top                                                       | Top                                                     | Top                                                     |

9 Series Switch Disconnectors

Standard: IEC 60947-3



Range Presentation

HDG9 is Himel 9 series range of Switch disconnectors designed to switch on and off the power system.

9 series switch disconnector is mainly used in commercial and residential buildings.

Features

- ◆ Rated current up to 125A
- ◆ High performance

Online Content



HDG9

Selection Code

| Range name | Frame | Number of poles                  | Rated current                                |
|------------|-------|----------------------------------|----------------------------------------------|
| HDG9       | 125   | 3                                | 32                                           |
| HDG9       | 125   | 1: 1P<br>2: 2P<br>3: 3P<br>4: 4P | 32: 32A<br>63: 63A<br>100: 100A<br>125: 125A |

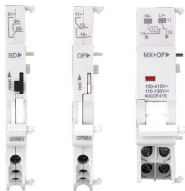
| Technical Parameters                    |                                                      |
|-----------------------------------------|------------------------------------------------------|
| Switch Disconnectors                    | HDG9                                                 |
| Electrical characteristics              |                                                      |
| Standard                                | IEC 60947-3                                          |
| Certificate                             | CE, CB, TUV, ROHS                                    |
| Rated insulation voltage Ui             | 500V                                                 |
| Frequency                               | 50/60Hz                                              |
| Rated operational voltage Ue            | 230V (1P) 400V (2P, 3P, 4P)                          |
| Rated short-time withstand current Icw  | 20Ie/1s                                              |
| Rated short-circuit making capacity Icm | 28,1Ie                                               |
| Rated impulse withstand voltage Uimp    | 4kV                                                  |
| Pollution class                         | 2                                                    |
| Isolation function                      | Yes                                                  |
| Mechanical characteristics              |                                                      |
| Mechanical endurance                    | 50000                                                |
| Electrical endurance                    | 30000 (32A) 20000 (63A) 10000 (100A) 2500 (125A)     |
| Protection class                        | IP40 (Installed in DB box) IP20 (Installed directly) |
| Mechanical shock resistance             | 30g, 3 shocks, lasting 11ms                          |
| Rated ambient temperature               | 30°C                                                 |
| Operating ambient temperature           | - 30°C ~ + 70°C                                      |
| Storage temperature                     | - 40°C ~ + 70°C                                      |
| Installation Features                   |                                                      |
| Maximum wiring capacity                 | 50mm²                                                |
| Maximum torque                          | 3.5N.m                                               |
| Installation                            | 35mm DIN rail                                        |
| Line incoming type                      | Top or bottom                                        |



FINAL DISTRIBUTION

9 Series Accessories

Standard: IEC/EN 60947



Compatible with HDB9, HDB9P, HDB9LE, HDB9PLE

| Technical Parameters                           |                                |                                 |                                                                                               |                                                |                       |                                        |
|------------------------------------------------|--------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------|----------------------------------------|
| MCB Accessories                                | OF                             | SD                              | MX                                                                                            | MV                                             | MN                    | MVMN                                   |
| Description                                    | Auxiliary contact              | Alarm contact                   | Shunt release                                                                                 | Over-voltage release                           | Under-voltage release | Over-voltage and under-voltage release |
| Reference                                      | HDB963OF                       | HDB963SD                        | HDB963MX24 (AC/DC 12~24V)<br>HDB963MX48 (AC/DC 48V)<br>HDB963MX415 (AC 100~415V, DC 110~130V) | HDB9MV                                         | HDB9MN                | HDB9MVMN                               |
| Standard                                       | IEC 60947-5-1                  | IEC 60947-5-1                   | IEC 60947-1                                                                                   | IEC 60947-2                                    | IEC 60947-2           | IEC 60947-2                            |
| Rated voltage                                  | AC 240/415<br>DC130V, 48V, 24V | AC 240/415<br>DC 130V, 48V, 24V | AC 100-415V<br>DC 110V-130V<br>AC/DC 12/24/48V                                                | AC 100-415V<br>DC 110V-130V<br>AC/DC 12/24/48V | 240V                  | 240V                                   |
| Wiring capacity                                | 1-2.5mm²                       | 1-2.5mm²                        | 1-2.5mm²                                                                                      | 1-2.5mm²                                       | 1-2.5mm²              | 1-2.5mm²                               |
| Width                                          | 9mm                            | 9mm                             | 18mm                                                                                          | 18mm                                           | 18mm                  | 18mm                                   |
| Installation side of MCB                       | Left                           | Left                            | Left                                                                                          | Left                                           | Left                  | Left                                   |
| Max installation quantity (From left to right) | 3                              | 3                               | 2                                                                                             | 2                                              | 2                     | 2                                      |

Remark: The total width of the accessory assembly is within 54mm

Overview of Accessories

Sketch map of installation with breaker



SD



OF



MX+OF



FINAL DISTRIBUTION

HDBK Plug in MCB

Standard: IEC/EN 60898-1



Range Presentation

HDBK series is Himel plug in MCB designed to protect power system from short circuit, overload faults.

HDBK can be used with NEMA load center.

Features

- ◆ Plug in installation
- ◆ Breaking capacity: up to 10kA

Online Content



HDBK

Selection Code

| Range name        | Number of poles         | Tripping type | Rated current                                                                                 |
|-------------------|-------------------------|---------------|-----------------------------------------------------------------------------------------------|
| <b>HDBK</b>       | <b>3</b>                | <b>C</b>      | <b>10</b>                                                                                     |
| HDBK: Plug in MCB | 1: 1P<br>2: 2P<br>3: 3P | C: Type C     | 6: 6A    32: 32A<br>10: 10A    40: 40A<br>16: 16A    50: 50A<br>20: 20A    63: 63A<br>25: 25A |

| Technical Parameters                                    |                                    |
|---------------------------------------------------------|------------------------------------|
| Plug in MCB                                             | HDBK                               |
| Electrical features                                     |                                    |
| Rated current In(A)                                     | 6, 10, 16, 20, 25, 32, 40, 50, 63  |
| Pole(P)                                                 | 1, 2, 3                            |
| Rated voltage Ue(V)                                     | AC 240/415                         |
| Insulation voltage Ui(V)                                | 500                                |
| Rated frequency(Hz)                                     | 50/60                              |
| Rated breaking capacity(A)                              | 6000 (AC 240/415V) 10000 (AC 120V) |
| Rated impulse withstand voltage(1.2/50)Uimp(V)          | 4000                               |
| Pollution degree                                        | 2                                  |
| Thermo-magnetic trip characteristic                     | C                                  |
| Mechanicalfeatures                                      |                                    |
| Electrical durability(t)                                | 4000                               |
| Mechanical durability(t)                                | 10000                              |
| Protection degree(V)                                    | IP20                               |
| Reference temperature for setting of thermal element(V) | 50                                 |
| Ambient temperature(with daily average≤35℃)             | 15~+60                             |
| Storage temperature(℃)                                  | -25~+70                            |
| Installation                                            |                                    |
| Terminal size for cable(mm²)                            | 25                                 |
| Torque(N.m)                                             | 2                                  |
| Mounting                                                | Plug in                            |
| Connection                                              | Top                                |

FINAL DISTRIBUTION

HDPZ50 Consumer Boxes

Standard: IEC/EN 60670



Range Presentation

HDPZ50 series is Himel Distribution Box designed to be used with Himel MCB, RCBO, RCCB and surge protection device.

Distribution box can be widely used in commercial and residential building.

Features

- ◆ Multiple material selection: full plastic, metal box and plastic cover
- ◆ Multiple installation: surface installation, flush installation
- ◆ IP30 protection grade
- ◆ Fire-retardancy option is available

Online Content



HDPZ50

Selection code of Metal Box&Plastic cover DB

| Range name | Installation                                     | Number of ways                                                                     |
|------------|--------------------------------------------------|------------------------------------------------------------------------------------|
| HDPZ50     | M                                                | 4                                                                                  |
| HDPZ50     | M: Surface installation<br>R: Flush installation | 6: 6 ways<br>8: 8 ways<br>12: 12 ways<br>16: 16 ways<br>20: 20 ways<br>24: 24 ways |

Selection code of full plastic DB

| Range name | Installation                                     | Number of ways                                                                                                 | IP Grade                                                                                | Fire-retardancy                               |
|------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------|
| HDPZ50P    | M                                                | 4                                                                                                              | IP30                                                                                    | NF                                            |
| HDPZ50P    | M: Surface installation<br>R: Flush installation | 4: 4 ways<br>6: 6 ways<br>8: 8 ways<br>12: 12 ways<br>15: 15 ways<br>18: 18 ways<br>24: 24 ways<br>36: 36 ways | Default: IP30 for non fire-retardancy<br>IP30:IP30 protection grade for fire-retardancy | F: Fire-retardancy<br>NF: Non fire-retardancy |

2 Pole MCB Plastic cover is available on demand

| Technical Parameters    |                            |              |
|-------------------------|----------------------------|--------------|
| Consumer Boxes          | HDPZ50                     | HDPZ50P      |
| Material                | Box: Metal, Cover: Plastic | Full Plastic |
| Fire-resistancy         | Fire-resistant             | Optional     |
| Protection grade        | IP30                       | IP30         |
| Rated operation voltage | 230/400V                   | 230/400V     |
| Rated insulated voltage | 500V                       | 500V         |
| Rated operating current | 100A                       | 100A         |
| Withstand current       | 6kA                        | 6kA          |

FINAL DISTRIBUTION

HDPZ50 Consumer Boxes

Standard: IEC/EN 60670

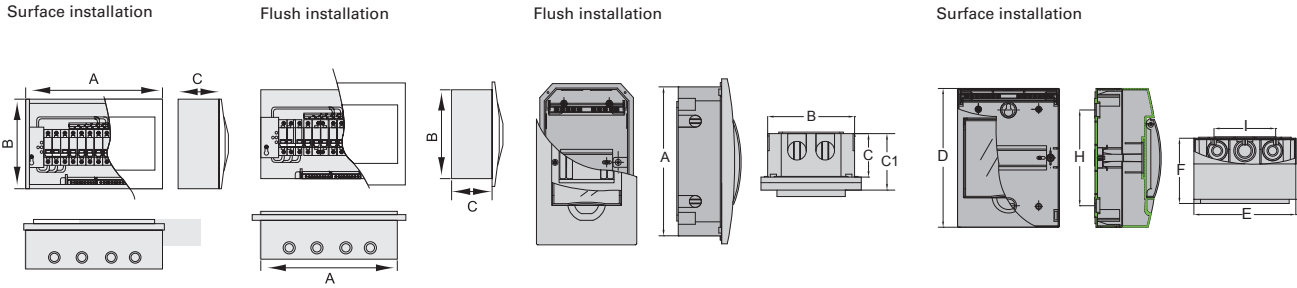
Overall Dimensions

| HDPZ50              |                      |     |                    |     | Unit: mm  |
|---------------------|----------------------|-----|--------------------|-----|-----------|
| Metal Box & Plastic | Surface Installation |     | Flush Installation |     | Thickness |
|                     | A                    | B   | A                  | B   | C         |
| 6                   | 171                  | 220 | 163                | 200 | 90        |
| 8                   | 207                  | 220 | 199                | 200 | 90        |
| 12                  | 279                  | 220 | 272                | 200 | 90        |
| 16                  | 351                  | 220 | 343                | 200 | 90        |
| 20                  | 423                  | 220 | 413                | 200 | 90        |
| 24                  | 303                  | 383 | 282                | 364 | 90        |

HDPZ50P

Unit: mm

| Full Plastic Loop Number | Dimension for Flush Installation |       |           |    | Dimension for Surface Installation |       |           |                        |     |
|--------------------------|----------------------------------|-------|-----------|----|------------------------------------|-------|-----------|------------------------|-----|
|                          | Height                           | Width | Thickness |    | Height                             | Width | Thickness | Installation Dimension |     |
|                          | A                                | B     | C         | C1 | D                                  | E     | F         | H                      | I   |
| 4                        | 200                              | 114   | 61        | 78 | 200                                | 112   | 91        | 138                    | -   |
| 6                        | 200                              | 150   | 61        | 78 | 200                                | 147   | 96        | 144                    | -   |
| 8                        | 200                              | 186   | 61        | 78 | 200                                | 183   | 96        | 144                    | -   |
| 12                       | 196                              | 258   | 61        | 78 | 200                                | 255   | 96        | 144                    | -   |
| 15                       | 198                              | 311   | 61        | 78 | 200                                | 310   | 96        | 144                    | -   |
| 18                       | 216                              | 363   | 61        | 78 | 218                                | 362   | 96        | 162                    | 290 |
| 24                       | 310.5                            | 261   | 74.5      | 92 | 324                                | 270   | 102       | 230                    | 207 |
| 36                       | 414.5                            | 261   | 70.5      | 88 | 459                                | 270   | 102       | 418                    | 207 |





FINAL DISTRIBUTION

HJXF Metal Enclosures

Standard: IEC/EN 60529



Range Presentation

HJXF is Himel Metal enclosure designed to be used with Himel MCB, RCBO, RCCB and surge protection device.

HJXF can be widely used in commercial and residential building.

Features

- ◆ Multiple protection grade: IP43, IP54

Online Content



HJXF

Selection Code

| Range name            | Height    | Width   | Depth   | Protection grade |
|-----------------------|-----------|---------|---------|------------------|
| HJXF                  | 25        | 20      | 14      | B                |
| HJXF: Metal Enclosure | 25: 250   | 20: 200 | 14: 140 | B: IP 43         |
|                       | 30: 200   | 25: 250 | 16: 160 | Q: IP 54         |
|                       | 40: 400   | 30: 300 | 18: 180 |                  |
|                       | 50: 500   | 40: 400 | 20: 200 |                  |
|                       | 60: 600   | 50: 500 | 25: 250 |                  |
|                       | 70: 700   | 60: 600 | 30: 300 |                  |
|                       | 80: 800   | 80: 800 |         |                  |
|                       | 100: 1000 |         |         |                  |

Available combination see below

Order Information

| Type                          | Thickness | Dimension (mm) |     |     |              |     |          |     |       | Lock | Reference    |
|-------------------------------|-----------|----------------|-----|-----|--------------|-----|----------|-----|-------|------|--------------|
|                               |           | Overall        |     |     | Installation |     | Mounting |     |       |      |              |
|                               |           | H              | W   | D   | H1           | B1  | H6       | B6  | Thick |      |              |
| HJXF - 2520/14 IP43 Improved  | 1.0       | 250            | 200 | 140 | 295          | 128 | 130      | 128 | 1.0   | 1    | HJXF252014B  |
| HJXF - 3025/14 IP43 Improved  | 1.0       | 300            | 250 | 140 | 345          | 178 | 180      | 178 | 1.0   | 1    | HJXF302514B  |
| HJXF - 3025/18 IP43 Improved  | 1.0       | 300            | 250 | 180 | 345          | 178 | 180      | 178 | 1.0   | 1    | HJXF302518B  |
| HJXF - 3030/14 IP43 Improved  | 1.0       | 300            | 300 | 140 | 345          | 228 | 180      | 228 | 1.0   | 1    | HJXF303014B  |
| HJXF - 3030/18 IP43 Improved  | 1.0       | 300            | 300 | 180 | 345          | 228 | 180      | 228 | 1.0   | 1    | HJXF303018B  |
| HJXF - 4030/14 IP43 Improved  | 1.0       | 400            | 300 | 140 | 445          | 228 | 280      | 228 | 1.0   | 1    | HJXF403014B  |
| HJXF - 4030/20 IP43 Improved  | 1.0       | 400            | 300 | 200 | 445          | 228 | 280      | 228 | 1.0   | 1    | HJXF403020B  |
| HJXF - 5040/14 IP43 Improved  | 1.0       | 500            | 400 | 140 | 545          | 328 | 380      | 328 | 1.0   | 2    | HJXF504014B  |
| HJXF - 5040/20 IP43 Improved  | 1.0       | 500            | 400 | 200 | 545          | 328 | 380      | 328 | 1.0   | 2    | HJXF504020B  |
| HJXF - 5040/25 IP43 Improved  | 1.0       | 500            | 400 | 250 | 545          | 328 | 380      | 328 | 1.0   | 2    | HJXF504025B  |
| HJXF - 6040/14 IP43 Improved  | 1.2       | 600            | 400 | 140 | 645          | 328 | 480      | 328 | 1.2   | 2    | HJXF604014B  |
| HJXF - 6040/20 IP43 Improved  | 1.2       | 600            | 400 | 200 | 645          | 328 | 480      | 328 | 1.2   | 2    | HJXF604020B  |
| HJXF - 6040/25 IP43 Improved  | 1.2       | 600            | 400 | 250 | 645          | 328 | 480      | 328 | 1.2   | 2    | HJXF604025B  |
| HJXF - 6050/14 IP43 Improved  | 1.2       | 600            | 500 | 140 | 645          | 428 | 480      | 428 | 1.2   | 2    | HJXF605014B  |
| HJXF - 6050/20 IP43 Improved  | 1.2       | 600            | 500 | 200 | 645          | 428 | 480      | 428 | 1.2   | 2    | HJXF605020B  |
| HJXF - 6050/25 IP43 Improved  | 1.2       | 600            | 500 | 250 | 645          | 428 | 480      | 428 | 1.2   | 2    | HJXF605025B  |
| HJXF - 7050/16 IP43 Improved  | 1.2       | 700            | 500 | 160 | 745          | 428 | 580      | 428 | 1.2   | 2    | HJXF705016B  |
| HJXF - 7050/20 IP43 Improved  | 1.2       | 700            | 500 | 200 | 745          | 428 | 580      | 428 | 1.2   | 2    | HJXF705020B  |
| HJXF - 7050/25 IP43 Improved  | 1.2       | 700            | 500 | 250 | 745          | 428 | 580      | 428 | 1.2   | 2    | HJXF705025B  |
| HJXF - 8060/20 IP43 Improved  | 1.5       | 800            | 600 | 200 | 845          | 528 | 680      | 528 | 1.5   | 2    | HJXF806020B  |
| HJXF - 8060/25 IP43 Improved  | 1.5       | 800            | 600 | 250 | 845          | 528 | 680      | 528 | 1.5   | 2    | HJXF806025B  |
| HJXF - 10080/20 IP43 Improved | 1.5       | 1000           | 800 | 200 | 1045         | 728 | 880      | 728 | 1.5   | 2    | HJXF1008020B |
| HJXF - 10080/25 IP43 Improved | 1.5       | 1000           | 800 | 250 | 1045         | 728 | 880      | 728 | 1.5   | 2    | HJXF1008025B |
| HJXF - 10080/30 IP43 Improved | 1.5       | 1000           | 800 | 300 | 1045         | 728 | 880      | 728 | 1.5   | 2    | HJXF1008030B |

FINAL DISTRIBUTION

HJXF Metal Enclosures

Standard: IEC/EN 60529

Order Information

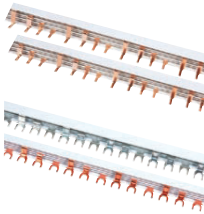
| Type                 | Thickness | Dimension (mm) |     |     |              |     |          |     |       | Lock | Reference    |
|----------------------|-----------|----------------|-----|-----|--------------|-----|----------|-----|-------|------|--------------|
|                      |           | Overall        |     |     | Installation |     | Mounting |     |       |      |              |
|                      |           | H              | W   | D   | H1           | B1  | H6       | B6  | Thick |      |              |
| HJXF - 2520/14 IP54  | 1.2       | 250            | 200 | 140 | 310          | 150 | 172      | 122 | 2.0   | 1    | HJXF252014Q  |
| HJXF - 3025/14 IP54  | 1.2       | 300            | 250 | 140 | 360          | 200 | 222      | 172 | 2.0   | 1    | HJXF302514Q  |
| HJXF - 3025/18 IP54  | 1.2       | 300            | 250 | 180 | 360          | 265 | 222      | 172 | 2.0   | 1    | HJXF302518Q  |
| HJXF - 3030/14 IP54  | 1.2       | 300            | 300 | 140 | 360          | 265 | 222      | 222 | 2.0   | 1    | HJXF303014Q  |
| HJXF - 3030/18 IP54  | 1.2       | 300            | 300 | 180 | 360          | 265 | 222      | 222 | 2.0   | 1    | HJXF303018Q  |
| HJXF - 4030/14 IP54  | 1.2       | 400            | 300 | 140 | 460          | 365 | 322      | 222 | 2.0   | 1    | HJXF403014Q  |
| HJXF - 4030/20 IP54  | 1.2       | 400            | 300 | 200 | 460          | 365 | 322      | 222 | 2.0   | 1    | HJXF403020Q  |
| HJXF - 5040/14 IP54  | 1.2       | 500            | 400 | 140 | 560          | 465 | 422      | 322 | 2.0   | 2    | HJXF504014Q  |
| HJXF - 5040/20 IP54  | 1.2       | 500            | 400 | 200 | 560          | 465 | 422      | 322 | 2.0   | 2    | HJXF504020Q  |
| HJXF - 5040/25 IP54  | 1.2       | 500            | 400 | 250 | 560          | 465 | 422      | 322 | 2.0   | 2    | HJXF504025Q  |
| HJXF - 6040/14 IP54  | 1.5       | 600            | 400 | 140 | 660          | 565 | 522      | 322 | 2.0   | 2    | HJXF604014Q  |
| HJXF - 6040/20 IP54  | 1.5       | 600            | 400 | 200 | 660          | 565 | 522      | 322 | 2.0   | 2    | HJXF604020Q  |
| HJXF - 6040/25 IP54  | 1.5       | 600            | 400 | 250 | 660          | 565 | 522      | 322 | 2.0   | 2    | HJXF604025Q  |
| HJXF - 6050/14 IP54  | 1.5       | 600            | 500 | 140 | 660          | 565 | 522      | 422 | 2.0   | 2    | HJXF605014Q  |
| HJXF - 6050/20 IP54  | 1.5       | 600            | 500 | 200 | 660          | 565 | 522      | 422 | 2.0   | 2    | HJXF605020Q  |
| HJXF - 6050/25 IP54  | 1.5       | 600            | 500 | 250 | 660          | 565 | 522      | 422 | 2.0   | 2    | HJXF605025Q  |
| HJXF - 7050/16 IP54  | 1.5       | 700            | 500 | 160 | 760          | 665 | 622      | 422 | 2.0   | 2    | HJXF705016Q  |
| HJXF - 7050/20 IP54  | 1.5       | 700            | 500 | 200 | 760          | 665 | 622      | 422 | 2.0   | 2    | HJXF705020Q  |
| HJXF - 7050/25 IP54  | 1.5       | 700            | 500 | 250 | 760          | 665 | 622      | 422 | 2.0   | 2    | HJXF705025Q  |
| HJXF - 8060/20 IP54  | 1.5       | 800            | 600 | 200 | 860          | 765 | 722      | 522 | 2.0   | 2    | HJXF806020Q  |
| HJXF - 8060/25 IP54  | 1.5       | 800            | 600 | 250 | 860          | 765 | 722      | 522 | 2.0   | 2    | HJXF806025Q  |
| HJXF - 10080/20 IP54 | 1.5       | 1000           | 800 | 200 | 1060         | 965 | 922      | 722 | 2.0   | 2    | HJXF1008020Q |
| HJXF - 10080/25 IP54 | 1.5       | 1000           | 800 | 250 | 1060         | 965 | 922      | 722 | 2.0   | 2    | HJXF1008025Q |
| HJXF - 10080/30 IP54 | 1.5       | 1000           | 800 | 300 | 1060         | 965 | 922      | 722 | 2.0   | 2    | HJXF1008030Q |

| Technical Parameters     |                     |
|--------------------------|---------------------|
| Metal Enclosures         | HJXF                |
| Protection grade         | IP43, IP54          |
| Standard                 | IEC/EN60529         |
| Sheet thickness          | 1.0 -1.5mm          |
| Mounting plate thickness | 1.0 -1.5mm          |
| Hinge                    | Enhanced            |
| Sealing rubber gasket    | Black rubber gasket |
| Cable gland              | Bottom only         |

FINAL DISTRIBUTION

HBBT Comb Busbars

Standard: IEC/EN 60439



Range Presentation

HBBT is compactible with both 3 series and 9 series

Features

- ◆ 2 connection options: PIN or U type
- ◆ 2 PIN thickness options: 1.2mm and 1.5mm

Online Content



HBBT

Selection Code

| Range name  | Number of poles                                         | Max current                                              | Thickness of pin       | Type of terminal         |
|-------------|---------------------------------------------------------|----------------------------------------------------------|------------------------|--------------------------|
| <b>HBBT</b> | <b>1P</b>                                               | <b>40A</b>                                               | <b>12</b>              | <b>P</b>                 |
| HBBT        | 1P: 1 pole<br>2P: 2 Poles<br>3P: 3 Poles<br>4P: 4 Poles | 40A: 40A<br>63A: 63A<br>75A: 75A<br>80A: 80A<br>85A: 85A | 12: 1.2mm<br>15: 1.5mm | P: Pin type<br>F: U type |

| Technical Parameters   |          |
|------------------------|----------|
| Comb Busbars           | HBBT     |
| Material of busbar     | E-CU-F25 |
| Material of insulation | PVC      |
| Short-circuit strength | 50kA     |
| Nominal voltage        | 415V     |
| Operating voltage      | Max 500V |
| Surge voltage          | 4kV      |
| Standard length        | 1m       |

FINAL DISTRIBUTION

HDCH8S Modular Contactors

Standard: IEC 61095



Range Presentation

HDCH8S is Himel modular contactor designed to switch on and switch off lighting or other equipments, can be widely used in commercial and residential building.

Features

- ◆ Multi-Selection for main contacts
- ◆ Full range from 16A to 63A

Online Content



HDCH8S

Selection Code

| Range name    | Current                                             | Number of poles         | Contacts                                                                                                                                                                                         |
|---------------|-----------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HDCH8S</b> | <b>16</b>                                           | <b>3</b>                | <b>20</b>                                                                                                                                                                                        |
| HDCH8S        | 16: 16A<br>20: 20A<br>25: 25A<br>40: 40A<br>63: 63A | 2: 2P<br>3: 3P<br>4: 4P | 20: 2NO (2P)<br>02: 2NC (2P)<br>11: 1NO 1NC (2P)<br>30: 3NO (3P)<br>03: 3NC (3P)<br>21: 2NO 1NC (3P)<br>12: 1NO 2NC (3P)<br>40: 4NO (4P)<br>04: 4NC (4P)<br>22: 2NO 2NC (4P)<br>31: 3NO 1NC (4P) |

| Technical Parameters                          |                 |           |                          |     |     |          |     |
|-----------------------------------------------|-----------------|-----------|--------------------------|-----|-----|----------|-----|
| Modular Contactors                            |                 |           | HDCH8S                   |     |     |          |     |
| Type                                          |                 |           | 16A                      | 20A | 25A | 40A      | 63A |
| Standard                                      |                 |           | IEC 61095                |     |     |          |     |
| Certificate                                   |                 |           | CE, CB                   |     |     |          |     |
| Rated current In(A)                           | AC-7a           |           | 16                       | 20  | 25  | 40       | 63  |
|                                               | AC-7b           |           | 6                        | 7   | 8.5 | 15       | 20  |
| Conventional free air thermal current Ith (A) |                 |           | 25                       | 25  | 25  | 63       | 63  |
| Rated insulation voltage ui (V)               |                 |           | 500                      |     |     |          |     |
| Rated voltage ue (V)                          |                 |           | 250 400                  |     |     |          |     |
| Rated impulse withstand voltage uimp (V)      |                 |           | 4kV                      |     |     |          |     |
| Ambient temperature                           |                 |           | -5°C~ 60°C               |     |     |          |     |
| Making and breaking capacity (AC-7a)          |                 |           | 1.05Ie                   |     |     |          |     |
| Main contacts                                 | 2P              |           | 1NO1NC, 2NO, 2NC         |     |     |          |     |
|                                               | 3P              |           | 3NO, 3NC, 2NO1NC, 1NO2NC |     |     |          |     |
|                                               | 4P              |           | 2NO2NC, 3NO1NC, 4NO, 4NC |     |     |          |     |
| Controlled power (kW)                         | AC-7a           | 250V      | 3.5                      | 4.5 | 5.5 | 9        | 14  |
|                                               |                 | 400V      | 6.5                      | 8   | 10  | 16       | 25  |
|                                               | AC-7b           | 250V      | 1.4                      | 1.6 | 2   | 3.5      | 4.5 |
|                                               |                 | 400V      | 2.4                      | 2.8 | 3.4 | 6        | 8   |
| Operation frequency                           |                 | times     | ≥30000                   |     |     |          |     |
| Operation frequency /1h (AC-7a)               |                 |           | 360                      |     |     |          |     |
| Coil voltage Us (V)                           |                 |           | AC24V AC220-240V 50/60Hz |     |     |          |     |
| IP grade                                      |                 |           | IP20                     |     |     |          |     |
| Wiring Ability (mm²)                          | Control circuit | Hard wire | 1.5-2.5 mm²              |     |     | 2×1.5mm² |     |
|                                               |                 | Soft wire | 1.5-2.5 mm²              |     |     | 2×2.5mm² |     |
|                                               | Main circuit    | Hard wire | 1.5-6mm²                 |     |     | 6-25mm²  |     |
|                                               |                 | Soft wire | 1-4 mm²                  |     |     | 6-16mm²  |     |



## FINAL DISTRIBUTION

## HDJS18 Time Relays

IEC 60947-5



## Range Presentation

HDJS18 is Himel range of Time Relay and it provides:

- Switch-off Delay
- Switch-on Delay

It is widely used for staircase lamps on automatic switch-off control according to scheduled time.

## Features

- ◆ Small size;
- ◆ Elegant appearance;
- ◆ High accuracy of time delay;
- ◆ High capacity of contacts;
- ◆ Strong anti-interference ability;
- ◆ Easy for installation.

## Online Content



HDJS18

## Selection Code

| Model                       | Time-delay type                                  | Time delay                                                        | Control voltage                    | Voltage type                           |
|-----------------------------|--------------------------------------------------|-------------------------------------------------------------------|------------------------------------|----------------------------------------|
| <b>HDJS18</b>               | <b>A</b>                                         | <b>10S</b>                                                        | <b>220</b>                         | <b>AD</b>                              |
| <b>HDJS18:</b> Product name | <b>A:</b> off delay<br><b>B:</b> switch-on delay | <b>10S:</b> 1-10s<br><b>120S:</b> 12-120s<br><b>480S:</b> 48-480s | <b>220:</b> 220V<br><b>24:</b> 24V | <b>Default:</b> AC<br><b>AD:</b> AC/DC |

| Technical Parameters                       |        |                                             |
|--------------------------------------------|--------|---------------------------------------------|
| Time Relays                                |        | HDJS18                                      |
| Rated conventional thermal current Ith (A) |        | 10                                          |
| AC-15                                      | Ue (V) | 380/240                                     |
|                                            | Ie (A) | 1.9/3                                       |
| DC-13                                      | Ue (V) | 24                                          |
|                                            | Ie (A) | 1.1                                         |
| Control voltage Us (V)                     |        | AC: 220, 110 (customized), 380 (customized) |
| Repetitive error                           |        | AC/DC: 24                                   |
| Time delay                                 |        | ≤5%                                         |
| Mechanical durability (time)               |        | 5s, 10s, 30s, 60s, 120s, 180s, 360s, 480s   |
| Electrical durability (time)               |        | ≥1 million                                  |
| Time-delay method                          |        | ≥100 thousand                               |
| Standard                                   |        | Switch-on delay, off delay                  |
| Ambient temperature                        |        | IEC 60947-5                                 |
| Range of operating control voltage         |        | -5℃~+40℃                                    |
| Altitude                                   |        | 85%~110% Us                                 |
| Installation category                      |        | ≤2000m                                      |
| Pollution class                            |        | II                                          |
|                                            |        | 3                                           |

## FINAL DISTRIBUTION

# HDY3 Surge Protective Devices

Standard: IEC 61643-1



## Range Presentation

HDY3 is Himel Surge Protective Device designed to protect electric installations and sensitive equipment against indirect surges . It is characterized by its capacity to safely discharge current with 8/20  $\mu$ s wave form.

HDY3 can be widely used in commercial and residential building.

## Features

- ◆ Full range from 20kA to 160kA
- ◆ Remote signaling

## Online Content



HDY3

### Selection Code

| Range name  | Max discharge of current                                                                                           | Number of poles                                                                                  | Max continuous voltage                                                | Accessories                                                        |
|-------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>HDY3</b> | <b>60</b>                                                                                                          | <b>3</b>                                                                                         | <b>275</b>                                                            | <b>YX</b>                                                          |
| <b>HDY3</b> | <b>20:</b> 20kA<br><b>40:</b> 40kA<br><b>65:</b> 65kA<br><b>80:</b> 80kA<br><b>120:</b> 120kA<br><b>160:</b> 160kA | <b>1:</b> 1P<br><b>2:</b> 2P<br><b>3:</b> 3P<br><b>4:</b> 4P<br><b>5:</b> 1P+N<br><b>6:</b> 3P+N | <b>Default:</b> AC 385V<br><b>275:</b> AC 275V<br><b>440:</b> AC 440V | <b>YX:</b> Remote signaling<br><b>Default:</b> No remote signaling |

| Technical Parameters                                    |                                                                                                                            |     |     |     |         |     |     |     |         |     |     |     |         |     |     |     |          |     |     |     |          |     |     |     |  |  |  |  |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|---------|-----|-----|-----|---------|-----|-----|-----|---------|-----|-----|-----|----------|-----|-----|-----|----------|-----|-----|-----|--|--|--|--|
| Surge Protective Devices                                | HDY3-20                                                                                                                    |     |     |     | HDY3-40 |     |     |     | HDY3-65 |     |     |     | HDY3-80 |     |     |     | HDY3-120 |     |     |     | HDY3-160 |     |     |     |  |  |  |  |
| Nominal discharge current In(kA)                        | 10                                                                                                                         |     |     |     | 20      |     |     |     | 30      |     |     |     | 40      |     |     |     | 60       |     |     |     | 80       |     |     |     |  |  |  |  |
| Maximum discharge current I <sub>max</sub> (kA)         | 20                                                                                                                         |     |     |     | 40      |     |     |     | 65      |     |     |     | 80      |     |     |     | 120      |     |     |     | 160      |     |     |     |  |  |  |  |
| Maximum allowable backup fuse strength(A gL)            | 50                                                                                                                         |     |     |     | 100     |     |     |     | 125     |     |     |     | 160     |     |     |     | 200      |     |     |     | 250      |     |     |     |  |  |  |  |
| Maximum continuous operating voltage U <sub>c</sub> (V) | 275                                                                                                                        | 340 | 385 | 440 | 275     | 340 | 385 | 440 | 275     | 340 | 385 | 440 | 275     | 340 | 385 | 440 | 275      | 340 | 385 | 440 | 275      | 340 | 385 | 440 |  |  |  |  |
| Protection level U <sub>p</sub> (kV)                    | 1.3                                                                                                                        | 1.5 | 1.6 | 1.8 | 1.5     | 1.7 | 1.8 | 2.0 | 1.6     | 1.8 | 2.0 | 2.2 | 1.8     | 2.0 | 2.2 | 2.2 | 2.2      | 2.4 | 2.5 | 3.5 | 2.3      | 3.7 | 3.7 | 2.8 |  |  |  |  |
| Leakage current 75%U <sub>c</sub> 1mA(μA)               | ≤20                                                                                                                        |     |     |     |         |     |     |     |         |     |     |     |         |     |     |     |          |     |     |     |          |     |     |     |  |  |  |  |
| Response time(ns)                                       | ≤25                                                                                                                        |     |     |     |         |     |     |     |         |     |     |     |         |     |     |     |          |     |     |     |          |     |     |     |  |  |  |  |
| Wave form(μs)                                           | 8 / 20                                                                                                                     |     |     |     |         |     |     |     |         |     |     |     |         |     |     |     |          |     |     |     |          |     |     |     |  |  |  |  |
| Product structure                                       | Plug-in                                                                                                                    |     |     |     |         |     |     |     |         |     |     |     |         |     |     |     |          |     |     |     |          |     |     |     |  |  |  |  |
| Protection rating                                       | II                                                                                                                         |     |     |     |         |     |     |     |         |     |     |     |         |     |     |     |          |     |     |     |          |     |     |     |  |  |  |  |
| Poles                                                   | 1P, 2P, 3P, 4P, 1P+ N, 3P+ N                                                                                               |     |     |     |         |     |     |     |         |     |     |     |         |     |     |     |          |     |     |     |          |     |     |     |  |  |  |  |
| Operating state indicator                               | Available (green: normal; red: fault)                                                                                      |     |     |     |         |     |     |     |         |     |     |     |         |     |     |     |          |     |     |     |          |     |     |     |  |  |  |  |
| Terminal wiring capacity                                | Minimum 4mm <sup>2</sup> for copper wire, maximum: 36mm <sup>2</sup> for single strand, 25mm <sup>2</sup> for multi-strand |     |     |     |         |     |     |     |         |     |     |     |         |     |     |     |          |     |     |     |          |     |     |     |  |  |  |  |
| Conformance standard                                    | IEC61643 -1                                                                                                                |     |     |     |         |     |     |     |         |     |     |     |         |     |     |     |          |     |     |     |          |     |     |     |  |  |  |  |
| Installation                                            | Installed on standard DIN guide rail(35mm)                                                                                 |     |     |     |         |     |     |     |         |     |     |     |         |     |     |     |          |     |     |     |          |     |     |     |  |  |  |  |
| Maximum ultimate torque                                 | 35N.m                                                                                                                      |     |     |     |         |     |     |     |         |     |     |     |         |     |     |     |          |     |     |     |          |     |     |     |  |  |  |  |
| Optional accessories                                    | Available (YX remote signaling)                                                                                            |     |     |     |         |     |     |     |         |     |     |     |         |     |     |     |          |     |     |     |          |     |     |     |  |  |  |  |

FINAL DISTRIBUTION

# HKG Digital Time Switches

Standard: IEC60947-5-1



Range Presentation

- HKG is Himel range of Digital Time Switches to control electrical components, turning on and off the circuits according to the scheduled time.
- Rated AC frequency is 50Hz, and rated AC control voltage is 400V or below
- Time control components in automatic control circuit, and turn on or off the circuits according to the scheduled time

Features

- ◆ Full range up to 400V
- ◆ Up to 32 daily switches (16 ON-16 OFF)
- ◆ Daily or weekly program
- ◆ Reset method:  
HKG316T: Power-off reset  
HKG316TD: Key-button reset  
HKG816: Key-button reset

Selection Code

| Range name                                                                | Rated control voltage                                         | Output number                                                 |
|---------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| <b>HKG316T</b>                                                            | <b>230</b>                                                    | <b>2</b>                                                      |
| HKG316T<br>HKG316TD<br>HKG816A: White cover<br>HKG816B: Transparent cover | 230: 230V<br>(HKG816 is only working under 230V)<br>400: 400V | Default: Single output<br>2: Double output (only for HKG316T) |



| Technical Parameters         |                                                                     |                            |                           |         |
|------------------------------|---------------------------------------------------------------------|----------------------------|---------------------------|---------|
| Digital Time Switches        | HKG316T                                                             | HKG316TD                   | HKG816A                   | HKG816B |
| Control time                 | 1min≤t≤168h (time is controlled in a daily cycle or a weekly cycle) |                            |                           |         |
| Utilization mode             | AC-15: 240V/3A 400V/1.9A                                            | AC-15: 240V/3A             | AC-15: 240V/3A; 400V/1.9A |         |
| Maximum switch times per day | 16-ON-16-OFF<br>(Single output)<br>8-ON-8-OFF<br>(Double output)    | 16-ON-16-OFF               | 16-ON-16-OFF              |         |
| Rated control voltage        | 230/400V AC                                                         | 230/380V AC                | 230V AC                   |         |
| Rated thermal current        | 10A                                                                 |                            |                           |         |
| Accuracy                     | ≤2s/day                                                             |                            |                           |         |
| Display Model                | Digital LED display                                                 |                            |                           |         |
| Time-set Mode                | Digital Keyswitch setting                                           |                            |                           |         |
| Battery                      | Inner alkaline battery                                              | Inner rechargeable battery |                           |         |

Online Content



HKG316



HKG816

# LOW VOLTAGE DISTRIBUTION



HDM2 Molded Case Circuit Breakers



HDM2

Rated current: 10-125A  
Pole: 1P/2P

027

HDW3 Air Circuit Breakers



HDW3

Rated current : 400A-6300A  
Pole: 3P/4P  
3 types of intelligent controllers

040

HDM3 Molded Case Circuit Breakers



HDM3

Rated current : 10-1250A  
Pole: 3P/4P

028

ATSE Automatic transfer switch controllers **NEW**



ATSE

3 kinds of power interlock available

044

HDM3E Electronic Circuit Breakers



HDM3E

Rated current : 125-1600A  
Pole: 3P/4P

028

HDGL Switch Disconnectors **NEW**



HDGL

Rated current: 16-3150A  
Pole: 3P/4P

045

HRT Fuse



HRT16

Rated current: 2-630A  
Rated voltage:  
AC 500/690V ; DC 250/440V  
Rated breaking capacity:  
120kA (500V), 50kA (690V)



HRT18

Rated current: 2-63A  
Rated voltage: AC 380V-500V  
Rated breaking capacity: 100kA

047



HDM3L

Rated current : 16-630A  
Pole: 3P/4P

028

HDM3L Earth-Leakage Circuit Breakers **NEW**

HDM2 MCCB



Range Presentation

HDM2 is Himel range of 1P/2P MCCB , rated current 10A to 125A, rated Voltage 220V/240V, 400V, suitable for AC 50/60Hz and mainly used in the Power distribution system, to provide protection against overload and short circuit.

Features

- ◆ Rated current 10A to 125A
- ◆ Icu/Ics certified  
1P: Icu/Ics=20/15kA@220/240V  
2P: Icu/Ics=30/18kA@220/240V  
Icu/Ics=20/15kA@400V
- ◆ Thermal trip calibrated under 40°C and 50°C , suitable for Higher ambient temperature

Online Content



HDM2

Selection Code

| Range name | Frame size | Breaking capacity | Rated current                                         | Poles          | Temperature           |
|------------|------------|-------------------|-------------------------------------------------------|----------------|-----------------------|
| HDM2       | 125        | L                 | 100                                                   | 1              | T                     |
| HDM2       | 125: 125AF | L                 | 010: 10A<br>016: 16A<br>...<br>100: 100A<br>125: 125A | 1: 1P<br>2: 2P | None: 40°C<br>T: 50°C |

| Technical Parameters                     |            |                                                        |    |
|------------------------------------------|------------|--------------------------------------------------------|----|
| MCCB                                     |            | HDM2-125                                               |    |
| Rated voltage Ue(V)                      |            | 1P: 220/240VAC; 2P: 400VAC                             |    |
| Rated frequency (Hz)                     |            | 50/60Hz                                                |    |
| Rated insulation voltage Ui(V)           |            | 690V                                                   |    |
| Rated impulse withstand voltage uimp(kV) |            | 8kV                                                    |    |
| Rated current In(A)                      |            | 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A,125A |    |
| Utilization category                     |            | A                                                      |    |
| Reference temperature                    |            | 40°C / 50°C                                            |    |
| Number of Poles                          |            | 1P                                                     | 2P |
| Icu(kA)                                  | 220/240VAC | 20                                                     | 30 |
| Ics(kA)                                  | 220/240VAC | 15                                                     | 18 |
| Icu(kA)                                  | 400VAC     | /                                                      | 20 |
| Ics(kA)                                  | 400VAC     | /                                                      | 15 |
| Mechanical life                          |            | 9000                                                   |    |
| Electrical life                          |            | 2000                                                   |    |
| Isolation function                       |            | Available                                              |    |
| Certification                            |            | SEMKO                                                  |    |

3 Series MCCB



Range Presentation

HDM3 is Himel 3 series range of molded case circuit breakers with fixed thermal magnetic trip unit, providing line protection and motor protection, up to 1250A.

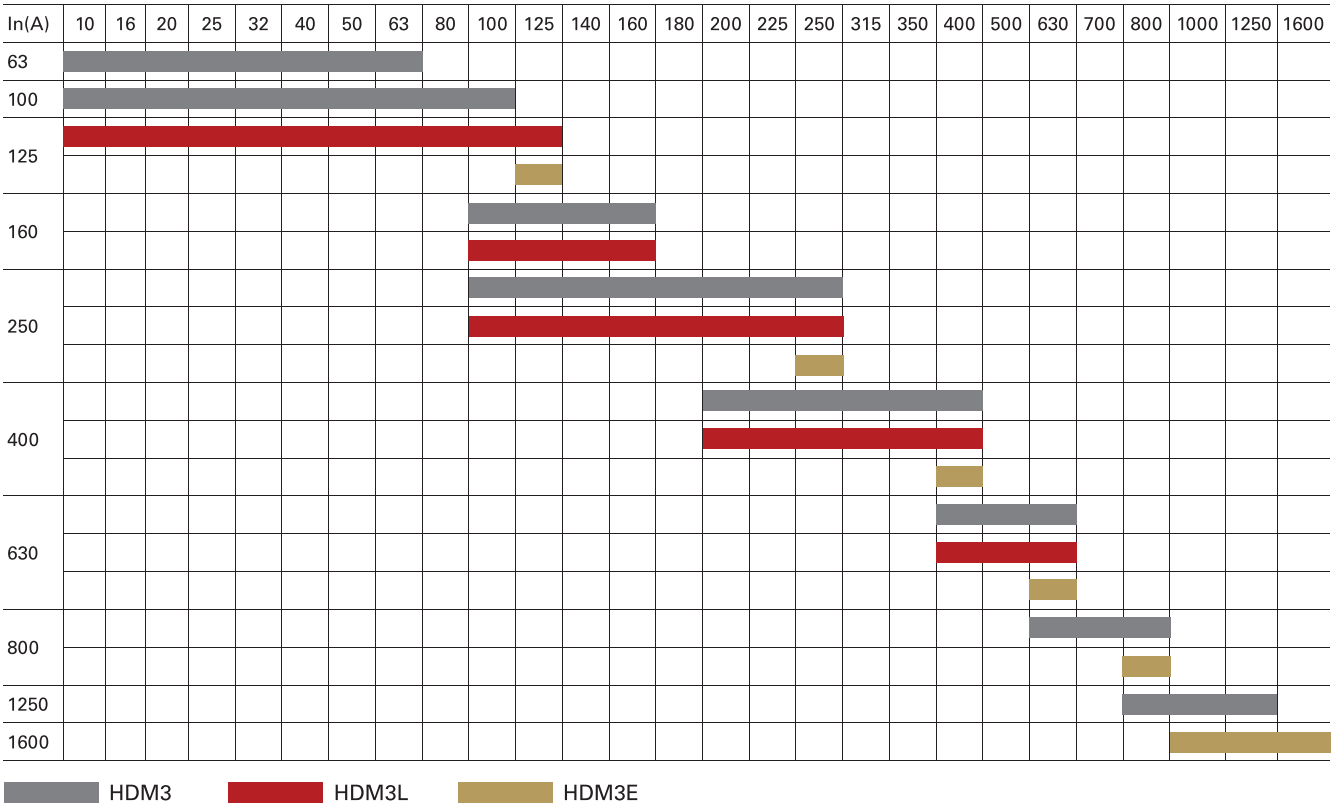
HDM3E is Himel 3 series range of MCCB with electronic type trip unit, providing LSI protection, up to 1600A.

HDM3L is Himel 3 series range of earth leakage MCCB, providing protection against residual current, up to 630A.

Features

- Easy Installation and Safe Operation**
  - ◆ Double-deck cover design assures easy installation and removal of accessories.
- High Performance**
  - ◆ Patented design ensures quick extinguishing of arc.
  - ◆ Suitable for wide environment conditions, max. -40°C ~+70°C

Range Presentation



Online Content



HDM3



HDM3E



HDM3L



3 Series MCCB



MCCB Selection Code

| Range name                       | Frame size                                                    | Breaking capacity                      | Rated current                                                 | Poles                     | Protection                                                               | Temperature          |
|----------------------------------|---------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------|----------------------|
| HDM3                             | 250                                                           | L                                      | 250                                                           | 3                         | 3XX                                                                      | T                    |
| HDM3<br>MCCB                     | 63: 63A                                                       | L: 18/18kA<br>S: 25/18kA               | 16: 16A<br>...<br>1250: 1250A                                 | 3: 3P<br>A*: 4P<br>B*: 4P | 2XX2: Mag only<br>motor protection<br>3XX: Mag-Therma<br>line protection | Default: 40<br>T: 50 |
|                                  | 100: 100A                                                     | L: 18/18kA<br>T: 30/30kA<br>N: 50/30kA |                                                               |                           |                                                                          |                      |
|                                  | 160: 160A<br>250: 250A                                        | L: 21/21kA<br>T: 36/36kA<br>N: 60/36kA |                                                               |                           |                                                                          |                      |
|                                  | 400: 400A<br>630: 630A                                        | T: 39/39kA<br>N: 70/39kA               |                                                               |                           |                                                                          |                      |
|                                  | 800: 800A                                                     | M: 40/40kA<br>F: 70/40kA               |                                                               |                           |                                                                          |                      |
|                                  | 1250: 1250A                                                   | N: 85/45kA                             |                                                               |                           |                                                                          |                      |
| HDM3E<br>Electronic<br>type MCCB | 125: 125A<br>250: 250A<br>400: 400A<br>630: 630A<br>800: 800A | M: 50/50kA                             | 125: 125A<br>250: 250A<br>400: 400A<br>630: 630A<br>800: 800A | 3: 3P<br>C*: 4P           | 3XX: Electronic<br>tripping, line<br>protection                          | Default: 40<br>T: 50 |

1600A see page39

Earth Leakage MCCB Selection Code

| Range name | Frame size                       | Breaking capacity | Rated current                | Poles           | Protection              | Residual current                                   | Time delay                                                         |
|------------|----------------------------------|-------------------|------------------------------|-----------------|-------------------------|----------------------------------------------------|--------------------------------------------------------------------|
| HDM3L      | 25                               | S                 | 250                          | 3               | 3X0                     | A                                                  | 1                                                                  |
| HDM3L      | 12: 125A<br>16: 160A<br>25: 250A | F: 50/30kA        | 016: 16A<br>...<br>630: 630A | 3: 3P<br>B*: 4P | 3X0:<br>line protection | A: 30/100/300<br>B: 100/300/500<br>C: 300/500/1000 | 0: No delay<br>1: 0.1/0.2/0.3s<br>2: 0.4/0.5/1s<br>3: 0.1/0.3/0.5s |
|            | 40: 400A                         | F: 70/42kA        |                              |                 |                         |                                                    |                                                                    |
|            | 63: 630A                         | F: 70/40kA        |                              |                 |                         |                                                    |                                                                    |
|            |                                  |                   |                              |                 |                         |                                                    |                                                                    |

Note:  
A:The N phase is directly connected with a wire, and without contacts. It's always closed.  
B:The N phase is equipped with contacts, but without protection. It closes earlier and opens later than the other 3 poles.  
C:The N phase is equipped with contacts, and with protection. It closes earlier and opens later than the other 3 poles.

3 Series MCCB



| Technical Parameters                     |                            |         |        |          |         |          |          |         |     |          |         |     |          |     |          |     |          |     |           |  |
|------------------------------------------|----------------------------|---------|--------|----------|---------|----------|----------|---------|-----|----------|---------|-----|----------|-----|----------|-----|----------|-----|-----------|--|
| MCCB                                     |                            | HDM3-63 |        | HDM3-100 |         |          | HDM3-160 |         |     | HDM3-250 |         |     | HDM3-400 |     | HDM3-630 |     | HDM3-800 |     | HDM3-1250 |  |
| Rated Voltage Ue(V)                      |                            | 400/415 |        |          |         |          |          |         |     |          |         |     |          |     |          |     |          |     |           |  |
| Rated insulation Voltage Ui(V)           |                            | 690     | 800    |          |         | 800      |          |         | 800 |          |         | 800 |          | 800 |          | 800 |          | 800 |           |  |
| Rated impulse withstand voltage Uimp(kV) |                            | 6       | 8      |          |         | 8        |          |         | 8   |          |         | 8   |          | 8   |          | 8   |          | 8   |           |  |
| Rated frequency(Hz)                      |                            | 50/60   |        |          |         |          |          |         |     |          |         |     |          |     |          |     |          |     |           |  |
| Rated current In(A)                      |                            | 10-63   | 10-100 | 40-100   | 100-160 |          |          | 100-250 |     |          | 200-400 |     | 400-630  |     | 630-800  |     | 800-1250 |     |           |  |
| Number of poles                          |                            | 3/4     |        |          |         |          |          |         |     |          |         |     |          |     |          |     |          |     |           |  |
| Use Category                             |                            | A       |        |          |         |          |          |         |     |          |         |     |          |     |          |     |          |     |           |  |
| Breaking capacity                        | Breaking Class             | L       | S      | L        | T       | N        | L        | T       | N   | L        | T       | N   | T        | N   | T        | N   | M        | F   | N         |  |
|                                          | Icu(kA) 400/415V AC        | 18      | 25     | 18       | 30      | 50       | 21       | 36      | 60  | 21       | 36      | 60  | 39       | 70  | 39       | 70  | 40       | 70  | 85        |  |
|                                          | Ics(kA) 400/415V AC        | 18      | 18     | 18       | 30      | 30       | 21       | 36      | 36  | 21       | 36      | 36  | 39       | 39  | 39       | 39  | 40       | 40  | 45        |  |
| Mechanical life                          | with maintenance           | 20000   |        | 20000    |         |          | 20000    |         |     | 20000    |         |     | 20000    |     | 10000    |     | 2500     |     | 2500      |  |
|                                          | without maintenance        | 10000   |        | 10000    |         |          | 10000    |         |     | 10000    |         |     | 5000     |     | 5000     |     | 1250     |     | 1250      |  |
| Electrical life                          | AC 400/415V                | 4000    |        | 4000     |         |          | 4000     |         |     | 4000     |         |     | 2000     |     | 2000     |     | 500      |     | 500       |  |
| Power distribution protection            | Thermal magnetic trip unit | ■       |        | ■        |         |          | ■        |         |     | ■        |         |     | ■        |     | ■        |     | ■        |     | ■         |  |
| Motor protection                         | Magnetic trip unit         | ■       |        | ■        |         |          | ■        |         |     | ■        |         |     | ■        |     | ■        |     | -        |     | -         |  |
| Isolation function                       |                            | ■       |        | ■        |         |          | ■        |         |     | ■        |         |     | ■        |     | ■        |     | ■        |     | ■         |  |
| Certification                            |                            | TUV, CE |        | TUV, CE  |         | KEMA, CE | KEMA, CE |         |     | KEMA, CE |         |     | KEMA, CE |     | KEMA, CE |     | KEMA, CE |     |           |  |

| Technical Parameters                     |                      |           |           |           |           |           |                |
|------------------------------------------|----------------------|-----------|-----------|-----------|-----------|-----------|----------------|
| Electronic type MCCB                     |                      | HDM3E-125 | HDM3E-250 | HDM3E-400 | HDM3E-630 | HDM3E-800 | HDM3E-1600     |
| Rated Voltage Ue(V)                      |                      | 400/415   |           |           |           |           |                |
| Rated insulation Voltage Ui(V)           |                      | 800       | 800       | 800       | 800       | 1000      | 1000           |
| Rated impulse withstand voltage Uimp(kV) |                      | 8         | 8         | 8         | 8         | 12        | 12             |
| Rated frequency(Hz)                      |                      | 50/60     |           |           |           |           |                |
| Rated current In(A)                      |                      | 125       | 250       | 400       | 630       | 800       | 1000/1250/1600 |
| Number of poles                          |                      | 3/4       |           |           |           |           |                |
| Use Category                             |                      | A         | A         | B         | B         | B         | B              |
| Breaking capacity                        | Breaking Class       | M         | M         | M         | M         | M         | M              |
|                                          | Icu(kA) 400/415V AC  | 50        | 50        | 50        | 50        | 50        | 50             |
|                                          | Ics(kA) 400/415V AC  | 50        | 50        | 50        | 50        | 50        | 50             |
|                                          | Icw(kA) 400/415V AC  | 2.5(1s)   | 2.5(1s)   | 5(1s)     | 8(1s)     | 10(1s)    | 42(1s)         |
| Mechanical life                          | with maintenance     | 10000     | 10000     | 7000      | 7000      | 5000      | 1500           |
|                                          | without maintenance  | 7000      | 7000      | 4000      | 4000      | 2500      | 500            |
| Electrical life                          | AC 400/415V          | 1000      | 1000      | 1000      | 1000      | 500       | 500            |
| Power distribution protection            | Electrinic trip unit |           |           |           |           |           |                |
| Isolation function                       |                      |           |           |           |           |           |                |
| Certification                            |                      | TUV, CE   | TUV, CE   | TUV, CE   | TUV, CE   | TUV, CE   | TUV, CE        |

3 Series MCCB



| Technical Parameters                                              |                      |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Earth leakage MCCB                                                |                      | HDM3L-125                                                                           | HDM3L-160                                                                           | HDM3L-250                                                                           | HDM3L-400                                                                             | HDM3L-630                                                                             |
| Rated voltage Ue(V)                                               |                      | 400/415                                                                             |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| Rated insulation voltage Ui(V)                                    |                      | 800                                                                                 | 800                                                                                 | 800                                                                                 | 800                                                                                   | 800                                                                                   |
| Rated impulse withstand voltage Uimp(kV)                          |                      | 8                                                                                   | 8                                                                                   | 8                                                                                   | 8                                                                                     | 8                                                                                     |
| Rated frequency(Hz)                                               |                      | 50/60                                                                               |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| Rated current In(A)                                               |                      | 16-125                                                                              | 100-160                                                                             | 100-250                                                                             | 200-400                                                                               | 400-630                                                                               |
| Number of poles                                                   |                      | 3/4                                                                                 |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| Use category                                                      |                      | A                                                                                   |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| Breaking capacity                                                 | Breaking class       | F                                                                                   | F                                                                                   | F                                                                                   | F                                                                                     | F                                                                                     |
|                                                                   | Icu(kA) 400/415V AC  | 50                                                                                  | 50                                                                                  | 50                                                                                  | 70                                                                                    | 70                                                                                    |
|                                                                   | Ics(kA) 400/415V AC  | 30                                                                                  | 30                                                                                  | 30                                                                                  | 42                                                                                    | 40                                                                                    |
|                                                                   | Icw(kA) 400/415V AC  | 25% Icu                                                                             |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| Mechanical life                                                   | with maintenance     | 20000                                                                               | 20000                                                                               | 20000                                                                               | 20000                                                                                 | 10000                                                                                 |
|                                                                   | without maintenance  | 10000                                                                               | 10000                                                                               | 10000                                                                               | 5000                                                                                  | 5000                                                                                  |
| Electrical life                                                   | AC 400/415V          | 4000                                                                                | 4000                                                                                | 4000                                                                                | 2000                                                                                  | 2000                                                                                  |
| Power distribution protection                                     | Electrinic trip unit |  |  |  |  |  |
| Isolation function                                                |                      |  |  |  |  |  |
| Leakage protection                                                |                      |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| Rated residual operating current IΔn mA (three rating adjustable) | Non-delay type       | 30, 100, 300                                                                        | 30, 100, 300                                                                        | 30, 100, 300                                                                        | 100, 300, 500                                                                         | 100, 300, 500                                                                         |
|                                                                   |                      | 100, 300, 500                                                                       | 100, 300, 500                                                                       | 100, 300, 500                                                                       | 300, 500, 1000                                                                        | 300, 500, 1000                                                                        |
|                                                                   | Delay type           | 100, 300, 500                                                                       | 100, 300, 500                                                                       | 100, 300, 500                                                                       | 100, 300, 500                                                                         | 100, 300, 500                                                                         |
|                                                                   |                      |                                                                                     |                                                                                     |                                                                                     | 300, 500,1000                                                                         | 300, 500, 1000                                                                        |
| Rated residual non-tripping current I Δ no (mA)                   |                      | 50% I Δ n                                                                           |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| Non-delay type: breaking time (s)                                 |                      | ≤ 0.2                                                                               |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| Fixed delay: 2I Δ n limit non-actuating time (s)                  |                      | 0.1/0.2/0.3/0.4/0.5/1                                                               | 0.1/0.2/0.3/0.4/0.5/1                                                               | 0.1/0.2/0.3/0.4/0.5/1                                                               | 0.1/0.2/0.3/0.4/0.5/1                                                                 | -                                                                                     |
| Delay adjustable type: 2I Δ n limit non-actuating time (s)        |                      | 0.1/0.2/0.3                                                                         | 0.1/0.2/0.3                                                                         | 0.1/0.2/0.3                                                                         | 0.1/0.2/0.3                                                                           | 0/0.2/0.5                                                                             |
|                                                                   |                      | 0.4/0.5/1                                                                           | 0.4/0.5/1                                                                           | 0.4/0.5/1                                                                           | 0.4/0.5/1                                                                             | -                                                                                     |
| Certification                                                     |                      | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                    | CE                                                                                    |

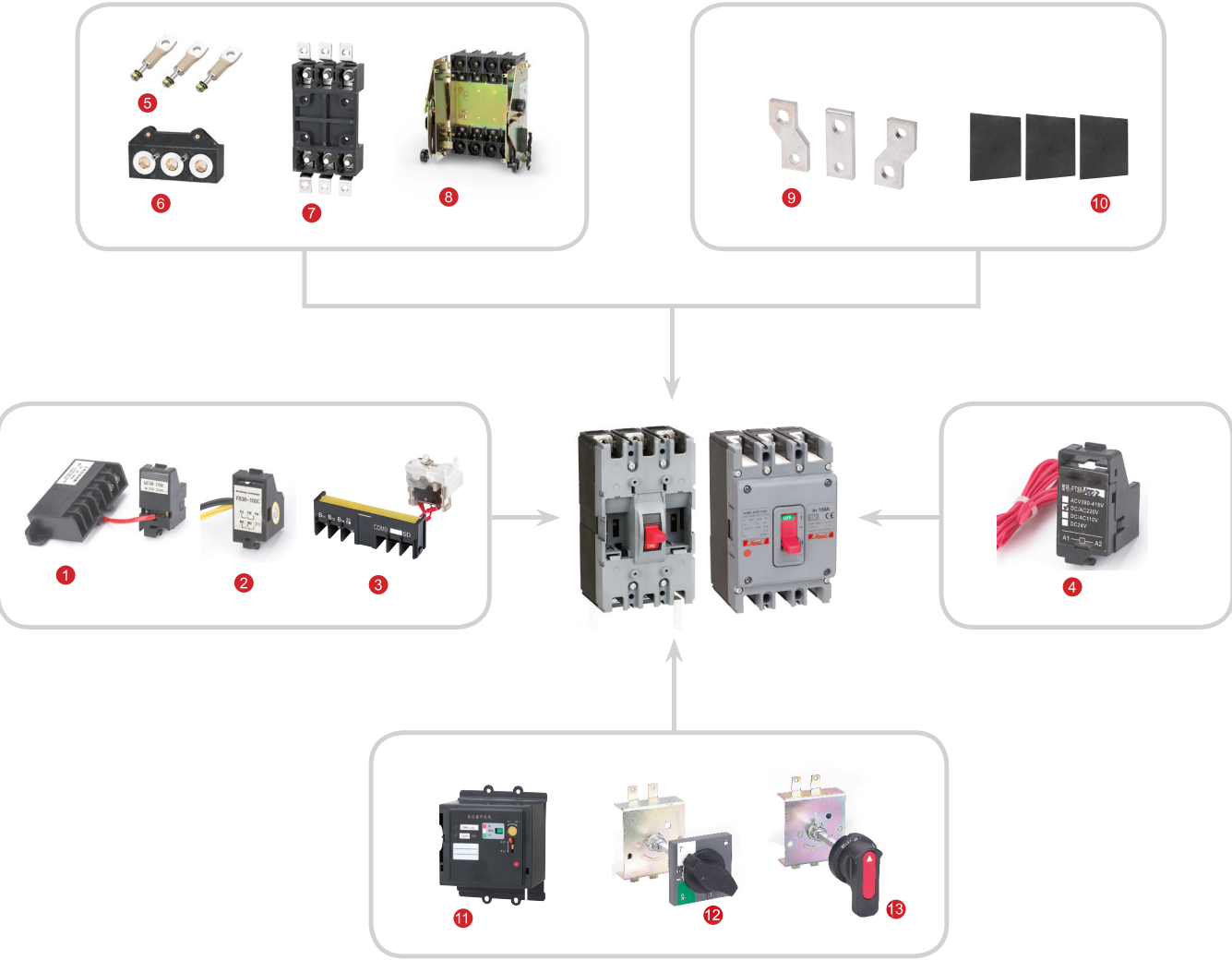
3 Series MCCB



Overview of Accessories

HDM3/3E/3L Accessories (Except HDM3E1600A)

Overview of Acc



|   |                       |    |                          |    |                                   |
|---|-----------------------|----|--------------------------|----|-----------------------------------|
| 1 | Undervoltage release  | 6  | Plug-in rear connection  | 11 | Electric operating mechanism      |
| 2 | Auxiliary contact     | 7  | Plug-in front connection | 12 | Square handle operating mechanism |
| 3 | Alarm contact         | 8  | Withdrawable connection  | 13 | Round handle operating mechanism  |
| 4 | Shunt release         | 9  | Extension terminal       |    |                                   |
| 5 | Fixed rear connection | 10 | Interphase barriers      |    |                                   |

Note:  
For full information about the accessories. Please go on Himel website to download "MCCB catalogue"

3 Series MCCB



| Frame size                        | Contact | Auxiliary contact with wire |                     | Auxiliary contact with Terminal |                   |                   |
|-----------------------------------|---------|-----------------------------|---------------------|---------------------------------|-------------------|-------------------|
|                                   |         | Left                        | Right               | Left                            | Right 3P          | Right 4P          |
| HDM3-63<br>HDM3-100L/S            | 1NC+1NO | HDM363OF11K1BL              | HDM363OF11K1BR      | HDM363OF21K1BL                  | HDM363OF21K1BR3P  | HDM363OF21K1BR4P  |
| HDM3-100M/F/T/N                   | 1NC+1NO | HDM3100FNOF11K1B            | HDM3100FNOF11K1BR   | HDM3100FNOF21K1B                | HDM3100FOF21K1BR3 | HDM3100FOF21K1BR4 |
| HDM3L-125                         | 1NC+1NO | HDM3100FNOF11K1B            | —                   | HDM3100FNOF21K1B                | —                 | —                 |
| HDM3-160/250<br>HDM3E-125/250     | 1NC+1NO | HDM3E125250OF11K1BL         | HDM3E125250OF11K1BR | HDM3E125250OF21K1BL             | HDM3E250OF21K1BR3 | HDM3E250OF21K1BR4 |
|                                   | 2NC+2NO | HDM3E125250OF12K2BL         | HDM3E125250OF12K2BR | HDM3E125250OF22K2BL             | HDM3E250OF22K2BR3 | HDM3E250OF22K2BR4 |
| HDM3L-160/250                     | 1NC+1NO | HDM3E125250OF11K1BL         | —                   | HDM3E125250OF21K1BL             | —                 | —                 |
| HDM3-400/630<br>HDM3E-400/630/800 | 1NC+1NO | HDM3E400630OF11K1BL         | HDM3E400630OF11K1BR | —                               | HDM3E630OF21K1BR3 | HDM3E630OF21K1BR4 |
|                                   | 2NC+2NO | HDM3E400630OF12K2BL         | HDM3E400630OF12K2BR | —                               | HDM3E630OF22K2BR3 | HDM3E630OF22K2BR4 |
| HDM3L-400                         | 1NC+1NO | HDM3E400630OF11K1BL         | —                   | —                               | —                 | —                 |
|                                   | 2NC+2NO | HDM3E400630OF12K2BL         | —                   | —                               | —                 | —                 |
| HDM3-800                          | 1NC+1NO | HDM3800OF11K1BL             | HDM3800OF11K1BR     | HDM3800OF21K1BL                 | HDM3800OF21K1BR3  | HDM3800OF21K1BR4  |
| HDM3L-630                         | 1NC+1NO | HDM3800OF11K1BL             | —                   | HDM3800OF21K1BL                 | —                 | —                 |



| Frame size                        | Alarm contact with wire |                 | Alarm contact with Terminal |                   |                   |
|-----------------------------------|-------------------------|-----------------|-----------------------------|-------------------|-------------------|
|                                   | Left                    | Right           | Left                        | Right 3P          | Right 4P          |
| HDM3-63<br>HDM3-100L/S            | HDM363AL1L              | HDM363AL1R      | HDM363AL2L                  | HDM363AL2R3P      | HDM363AL2R4P      |
| HDM3-100M/F/T/N                   | HDM3100FNAL1L           | HDM3100FNAL1R   | HDM3100FNAL2L               | HDM3100FNAL2R3P   | HDM3100FNAL2R4P   |
| HDM3L-125                         | HDM3100FNAL1L           | —               | HDM3100FNAL2L               | —                 | —                 |
| HDM3-160/250<br>HDM3E-125/250     | HDM3160AL1L             | HDM3160AL1R     | HDM3160AL2L                 | HDM3160AL2R3P     | HDM3160AL2R4P     |
| HDM3L-160/250                     | HDM3160AL1L             | —               | HDM3160AL2L                 | —                 | —                 |
| HDM3-400/630<br>HDM3E-400/630/800 | HDM3E400630AL1L         | HDM3E400630AL1R | HDM3E400630AL2L             | HDM3E400630AL2R3P | HDM3E400630AL2R4P |
| HDM3L-400                         | HDM3E400630AL1L         | —               | HDM3E400630AL2L             | —                 | —                 |
| HDM3-800<br>HDM3L-630             | HDM3800AL1L             | —               | HDM3800AL2L                 | —                 | —                 |

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| Frame size                        | Auxiliary Alarm with wire |                   | Auxiliary Alarm with Terminal |                     |                     |
|-----------------------------------|---------------------------|-------------------|-------------------------------|---------------------|---------------------|
|                                   | Left                      | Right             | Left                          | Right 3P            | Right 4P            |
| HDM3-63<br>HDM3-100L/S            | HDM363OFAL1L              | HDM363OFAL1R      | HDM363OFAL2L                  | HDM363OFAL2R3P      | HDM363OFAL2R4P      |
| HDM3-100M/F/T/N                   | HDM3100FNOFAL1L           | HDM3100FNOFAL1R   | HDM3100FNOFAL2L               | HDM3100FNOFAL2R3    | HDM3100FNOFAL2R4    |
| HDM3L-125                         | HDM3100FNOFAL1L           | —                 | HDM3100FNOFAL2L               | —                   | —                   |
| HDM3-160/250<br>HDM3E-125/250     | HDM3160OFAL1L             | HDM3160OFAL1R     | HDM3160OFAL2L                 | HDM3160OFAL2R3P     | HDM3160OFAL2R4P     |
| HDM3L-160/250                     | HDM3160OFAL1L             | —                 | HDM3160OFAL2L                 | —                   | —                   |
| HDM3-400/630<br>HDM3E-400/630/800 | HDM3E400630OFAL1L         | HDM3E400630OFAL1R | HDM3E400630OFAL2L             | HDM3E400630OFAL2R3P | HDM3E400630OFAL2R4P |
| HDM3L-400                         | HDM3E400630OFAL1L         | —                 | HDM3E400630OFAL2L             | —                   | —                   |
| HDM3-800<br>HDM3L-630             | —                         | —                 | HDM3800OFAL2L                 | —                   | —                   |



| Frame size                                     | Under voltage release with Terminal |                  |
|------------------------------------------------|-------------------------------------|------------------|
|                                                | Voltage                             | Left             |
| HDM3-63<br>HDM3-100L/S                         | AC230V                              | HDM363MNA2L      |
|                                                | AC400V                              | HDM363MNA3L      |
| HDM3-100M/F/T/N<br>HDM3L-125                   | AC230V                              | HDM3100FNMNA2L   |
|                                                | AC400V                              | HDM3100FNMNA3L   |
| HDM3-160/250<br>HDM3L-160/250<br>HDM3E-125/250 | AC230V                              | HDM3E125250MNA2L |
|                                                | AC400V                              | HDM3E125250MNA3L |
| HDM3-400/630<br>HDM3L-400<br>HDM3E-400/630/800 | AC230V                              | HDM3E400630MNA2L |
|                                                | AC400V                              | HDM3E400630MNA3L |
| HDM3-800<br>HDM3L-630                          | AC230V                              | HDM3800MNA2L     |
|                                                | AC400V                              | HDM3800MNA3L     |
| HDM3-1250                                      | AC230V                              | HDM31250MNA2     |
|                                                | AC400V                              | HDM31250MNA3     |



3 Series MCCB

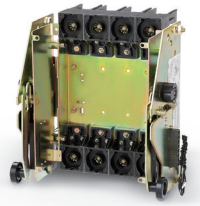


| Frame size                            | Voltage | Shunt release with wire |                | Shunt release with Terminal |                     |                     |
|---------------------------------------|---------|-------------------------|----------------|-----------------------------|---------------------|---------------------|
|                                       |         | Left                    | Right          | Left                        | Right 3P            | Right 4P            |
| HDM3-63<br>HDM3-100L/S                | AC230V  | HDM363MX1A2L            | HDM363MX1A2    | —                           | HDM363MX2A23P       | HDM363MX2A24P       |
|                                       | AC400V  | —                       | HDM363MX1A3    | —                           | HDM363MX2A33P       | HDM363MX2A34P       |
|                                       | DC24V   | —                       | HDM363MX1D2    | —                           | HDM363MX2D23P       | HDM363MX2D24P       |
| HDM3-100M/F/<br>T/N                   | AC230V  | HDM3100FNMX1A2L         | HDM3100FNMX1A2 | HDM3100FNMX2A2L             | HDM3100FNMX2A23P    | HDM3100FNMX2A24P    |
|                                       | AC400V  | HDM3100FNMX1A3L         | HDM3100FNMX1A3 | HDM3100FNMX2A3L             | HDM3100FNMX2A33P    | HDM3100FNMX2A34P    |
|                                       | DC24V   | HDM3100FNMX1D2L         | HDM3100FNMX1D2 | HDM3100FNMX2D2L             | HDM3100FNMX2D23P    | HDM3100FNMX2D24P    |
| HDM3L-125                             | AC230V  | HDM3100FNMX1A2L         | —              | HDM3100FNMX2A2L             | —                   | —                   |
|                                       | AC400V  | HDM3100FNMX1A3L         | —              | HDM3100FNMX2A3L             | —                   | —                   |
|                                       | DC24V   | HDM3100FNMX1D2L         | —              | HDM3100FNMX2D2L             | —                   | —                   |
| HDM3-160/250<br>HDM3E-125/250         | AC230V  | HDM3160MX1A2L           | —              | HDM3160MX2A2L               | HDM3250MX2A23P      | HDM3250MX2A24P      |
|                                       | AC400V  | HDM3160MX1A3L           | —              | HDM3250MX2A3L               | HDM3160MX2A33P      | —                   |
|                                       | DC24V   | HDM3250MX1D2L           | —              | HDM3250MX2D2L               | —                   | —                   |
|                                       | DC110V  | HDM3E125250MX1D11       | —              | —                           | HDM3E125250MX2D113P | HDM3E125250MX2D114P |
|                                       | DC220V  | HDM3E125250MX1D22       | —              | —                           | HDM3E125250MX2D223P | HDM3E125250MX2D224P |
| HDM3L-160/250                         | AC230V  | HDM3160MX1A2L           | —              | HDM3160MX2A2L               | —                   | —                   |
|                                       | AC400V  | HDM3160MX1A3L           | —              | HDM3250MX2A3L               | —                   | —                   |
|                                       | DC24V   | HDM3250MX1D2L           | —              | HDM3250MX2D2L               | —                   | —                   |
|                                       | DC110V  | HDM3E125250MX1D11       | —              | —                           | —                   | —                   |
|                                       | DC220V  | HDM3E125250MX1D22       | —              | —                           | —                   | —                   |
| HDM3-400/630<br>HDM3E-<br>400/630/800 | AC230V  | HDM3400MX1A2L           | HDM3400MX1A2   | HDM3400MX2A2L               | HDM3400MX2A23P      | HDM3400MX2A24P      |
|                                       | AC400V  | HDM3400MX1A3L           | HDM3630MX1A3   | HDM3400MX2A3L               | HDM3400MX2A33P      | HDM3400MX2A34P      |
|                                       | DC24V   | HDM3400MX1D2L           | HDM3630MX1D2   | HDM3400MX2D2L               | HDM3400MX2D23P      | HDM3400MX2D24P      |
|                                       | DC110V  | HDM3E400630MX1D11       | —              | —                           | HDM3E400630MX2D113P | HDM3E400630MX2D114P |
|                                       | DC220V  | HDM3E400630MX1D22       | —              | —                           | HDM3E400630MX2D223P | HDM3E400630MX2D224P |
| HDM3L-400                             | AC230V  | HDM3400MX1A2L           | —              | HDM3400MX2A2L               | —                   | —                   |
|                                       | AC400V  | HDM3400MX1A3L           | —              | HDM3400MX2A3L               | —                   | —                   |
|                                       | DC24V   | HDM3400MX1D2L           | —              | HDM3400MX2D2L               | —                   | —                   |
|                                       | DC110V  | HDM3E400630MX1D11       | —              | —                           | —                   | —                   |
|                                       | DC220V  | HDM3E400630MX1D22       | —              | —                           | —                   | —                   |
| HDM3-800                              | AC230V  | HDM3800MX1A2L           | HDM3800MX1A2R  | HDM3800MX2A2L               | HDM3800MX2A2R3P     | HDM3800MX2A2R4P     |
|                                       | AC400V  | HDM3800MX1A3L           | HDM3800MX1A3R  | HDM3800MX2A3L               | HDM3800MX2A3R3P     | HDM3800MX2A3R4P     |
|                                       | DC24V   | HDM3800MX1D2L           | HDM3800MX1D2R  | HDM3800MX2D2L               | HDM3800MX2D2R3P     | HDM3800MX2D2R4P     |
| HDM3L-630                             | AC230V  | HDM3800MX1A2L           | —              | HDM3800MX2A2L               | —                   | —                   |
|                                       | AC400V  | HDM3800MX1A3L           | —              | HDM3800MX2A3L               | —                   | —                   |
|                                       | DC24V   | HDM3800MX1D2L           | —              | HDM3800MX2D2L               | —                   | —                   |
| HDM3-1250                             | AC230V  | —                       | —              | —                           | HDM31250MX2A2R      | —                   |

3 Series MCCB



| Frame size             | Plug-in          |                 |                 | Motor         |               |             |
|------------------------|------------------|-----------------|-----------------|---------------|---------------|-------------|
|                        | Connection type  | 3P              | 4P              | AC230V        | AC400V        | DC220V      |
| HDM3-63<br>HDM3-100L/S | Front connection | HDM363PFC3      | HDM363PFC4      | HDM363D1A2    | HDM363D1A3    | HDM363D2    |
|                        | Rear conection   | HDM363PRC3      | HDM363PRC4      |               |               |             |
| HDM3-100M/F/T/N        | Front connection | HDM3100FNPFC3   | HDM3100FNPFC4   | HDM3100FND1A2 | HDM3100FND1A3 | HDM3100FND2 |
|                        | Rear conection   | HDM3100FNPRC3   | HDM3100FNPRC4   |               |               |             |
| HDM3-160/250L/S        | Front connection | HDM3250SPFC3    | HDM3250SPFC4    | HDM3160SD1A2  | HDM3160SD1A3  | HDM3160SD2  |
|                        | Rear conection   | HDM3250SPRC3    | HDM3250SPRC4    |               |               |             |
| HDM3-160/250M/F/T/N    | Front connection | HDM3E125250PFC3 | HDM3E125250PFC4 | HDM3160FD1A2  | HDM3160FD1A3  | HDM3160FD2  |
|                        | Rear conection   | HDM3E125250PRC3 | HDM3E125250PRC4 |               |               |             |
| HDM3E-125/250          | Front connection | HDM3E125250PFC3 | HDM3E125250PFC4 | HDM3E125250D2 | HDM3E125250D4 | —           |
|                        | Rear conection   | HDM3E125250PRC3 | HDM3E125250PRC4 |               |               |             |
| HDM3-400<br>HDM3E-400  | Rear conection   | HDM3E400PRC3    | HDM3E400PRC4    | HDM3400D1A2   | HDM3400D1A3   | HDM3400D2   |
| HDM3-630<br>HDM3E-630  | Rear conection   | HDM3E630PRC3    | HDM3E630PRC4    | HDM3400D1A2   | HDM3400D1A3   | HDM3400D2   |
| HDM3-800               | Rear conection   | HDM3800PRC3     | HDM3800PRC4     | HDM3800D1A2   | HDM3800D1A3   | —           |
| HDM3E-800              | Rear conection   | HDM3E800PRC3    | HDM3E800PRC4    | HDM3E800D2    | HDM3E800D4    | —           |
| HDM3-1250              | —                | —               | —               | HDM31250CD1A2 | HDM31250CD1A3 | —           |



| Frame size            | Draw-out             |              |              |
|-----------------------|----------------------|--------------|--------------|
|                       | Connection type      | 3P           | 4P           |
| HDM3-400<br>HDM3E-400 | Horizontal conection | HDM3E400DOR3 | HDM3E400DOR4 |
| HDM3-630<br>HDM3E-630 | Horizontal conection | HDM3E630DOR3 | HDM3E630DOR4 |
| HDM3E-800             | Horizontal conection | HDM3E800DOR3 | HDM3E800DOR4 |

3 Series MCCB



| Frame size             | Rotation Handle |               |                         |
|------------------------|-----------------|---------------|-------------------------|
|                        | Handle shape    | Direct        | Extended (Defult 150mm) |
| HDM3-63<br>HDM3-100L/S | Round           | HDM363H1      | HDM363HL1               |
|                        | Square          | HDM363H2      | HDM363HL2               |
| HDM3-100M/F/T/N        | Round           | HDM3100FNH1   | HDM3100FNHL1            |
|                        | Square          | HDM3100FNH2   | HDM3100FNHL2            |
| HDM3-160/250           | Round           | HDM3160H1     | HDM3160HL1              |
|                        | Square          | HDM3160H2     | HDM3160HL2              |
| HDM3-400/630           | Round           | HDM3400H1     | HDM3400HL1              |
|                        | Square          | HDM3400H2     | HDM3400HL2              |
| HDM3-800               | Round           | HDM3800H1     | HDM3800HL1              |
|                        | Square          | HDM3800H2     | HDM3800HL2              |
| HDM3E-125/250          | Round           | HDM3E125250H1 | HDM3E125250HL1          |
|                        | Square          | HDM3E125250H2 | HDM3E125250HL2          |
| HDM3E-400/630          | Round           | HDM3E400630H1 | HDM3E400630HL1          |
|                        | Square          | HDM3E400630H2 | HDM3E400630HL2          |
| HDM3E-800              | Round           | HDM3E800H1    | HDM3E800HL1             |
|                        | Square          | HDM3E800H2    | HDM3E800HL2             |

Note:  
If you need 175mm rotation handle, please addition order below reference no.  
Under 250A: HDM3E-8X8ROD175  
Over 250A: HDM3E-10X10ROD175  
If you need 200mm rotation handle, please addition order below reference no.  
Under 250A: HDM3-8x8ROD200  
Over 250A: HDM3-10x10ROD200

3 Series MCCB



| Frame size                                            | Expanding terminal |             | Interphase barriers |              |
|-------------------------------------------------------|--------------------|-------------|---------------------|--------------|
|                                                       | 3P(3pcs)           | 4P(4pcs)    | 3P(2pcs)            | 4P(3pcs)     |
| HDM3-63<br>HDM3-100L/S                                | HDM363C3           | HDM363C4    | HDM363IB3           | HDM363IB4    |
| HDM3-100M/F/T/N<br>HDM3L-125                          | HDM3100FNC3        | HDM3100FNC4 | HDM3100FNIB3        | HDM3100FNIB4 |
| HDM3-160/250L/S                                       | HDM3160C3          | HDM3160C4   | HDM3160SIB3         | HDM3160SIB4  |
| HDM3-160/250M/F/T/N<br>HDM3L-160/250<br>HDM3E-125/250 | HDM3160C3          | HDM3160C4   | HDM3160FIB3         | HDM3160FIB4  |
| HDM3-400<br>HDM3L-400<br>HDM3E-400                    | HDM3400C3          | HDM3400C4   | HDM3400IB3          | HDM3400IB4   |
| HDM3-630<br>HDM3E-630                                 | HDM3630C3          | HDM3630C4   | HDM3630IB3          | HDM3630IB4   |
| HDM3-800                                              | HDM3E800C3         | HDM3E800C4  | HDM3800IB3          | HDM3800IB4   |
| HDM3E-800                                             | HDM3E800C3         | HDM3E800C4  | HDM3E800IB3         | HDM3E800IB4  |
| HDM3L-630                                             | HDM3E800C3         | HDM3E800C4  | HDM3L630IB3         | HDM3L630IB4  |



| Frame size                                     | Rear connection |              |
|------------------------------------------------|-----------------|--------------|
|                                                | 3P(6pcs)        | 4P(8pcs)     |
| HDM3-63<br>HDM3-100L/S                         | HDM363RC3       | HDM363RC4    |
| HDM3-100M/F/T/N<br>HDM3L-125                   | HDM3100FNRC3    | HDM3100FNRC4 |
| HDM3-160/250<br>HDM3L-160/250<br>HDM3E-125/250 | HDM3160RC3      | HDM3160RC4   |
| HDM3-400/630<br>HDM3L-400<br>HDM3E-400/630     | HDM3400RC3      | HDM3400RC4   |
| HDM3-800<br>HDM3E-800                          | HDM3800RC3      | HDM3800RC4   |
| HDM3L-630                                      | HDM3L630RC3     | HDM3L630RC4  |

3 Series MCCB



1600A HDM3E MCCB Selection Code

| Range name | Frame size | Breaking capacity (ICU/ICS) | Rated current                       | Poles          | Trip unit                 | MCH +XF                                                  | MX                                                              | MN                                                        | Controller | Temperture           |
|------------|------------|-----------------------------|-------------------------------------|----------------|---------------------------|----------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|------------|----------------------|
| HDM3E      | 16         | M                           | 16                                  | 3              | F                         | 5                                                        | 5                                                               | 5                                                         | L          | T                    |
| HDM3E      | 16 : 1600A | M: 50/50kA                  | 10: 1000A<br>12: 1250A<br>16: 1600A | 3: 3P<br>4: 4P | F: Fixed front connection | 5: Without MCH+XF<br>N: AC230V<br>V: AV400V<br>D: DC220V | 5: Without Shunt release<br>N: AC230V<br>V: AV400V<br>D: DC220V | 5: Without undervoltage release<br>N: AC230V<br>V: AV400V | L: iTR326  | Default: 40<br>T: 50 |

HDM3E 1600A Accessories

|   |               |   |                      |   |              |
|---|---------------|---|----------------------|---|--------------|
| 1 | Close release | 3 | Undervoltate release | 5 | Motor        |
| 2 | Shunt release | 4 | Key lock             | 6 | Power Module |

If 1600A accessories required, please contact local Himel sales office

HDW3 Air Circuit Breakers

Standard: IEC IEC60947-2



Range Presentation

HDW3 is Himel 3 series comprehensive range of Air Circuit Breakers designed to distribute electric energy and protect overload, under voltage, short circuit and ground faults

HDW3 can be mainly used in power stations, factories, mines and modern high-rise buildings with smart power distribution system.

Application standard: IEC/EN 60947-2

Features

- ◆ 5 frame sizes: 1600, 2000, 3200, 4000, 6300A
- ◆ Rated current In (A): 400 - 6300
- ◆ Rated voltage AC Ue (V): 400/415, 660/690
- ◆ Poles: 3 & 4
- ◆ 3 type of intelligent controllers

Online Content



HDW3

Selection code

| Range name                                               | Frame size                                                      | Breaking capacity                                                                                                                       | Rated current                                                                                                                                                  | Poles                                                                                              | Installation type                                                               |
|----------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| HDW3                                                     | 16                                                              | M                                                                                                                                       | 16                                                                                                                                                             | 3                                                                                                  | FH                                                                              |
| HDW3                                                     | 16: 1600<br>20: 2000<br>32: 3200<br>40: 4000<br>63: 6300        | M: Icu≠Ics≠Icw<br>S: Icu=Ics=Icw                                                                                                        | 04: 400A<br>06: 630A<br>08: 800A<br>10: 1000A<br>12: 1250A<br>16: 1600A<br>20: 2000A<br>25: 2500A<br>32: 3200A<br>40: 4000A<br>50: 5000A<br>63: 6300A(only 3P) | 3: 3P<br>4: 4P                                                                                     | DH: Draw-out horizontal (1600AF~6300AF)<br>FH: Fixed horizontal (1600AF~4000AF) |
| Motor mechanism (MCH)+Closing coil (XF)                  |                                                                 |                                                                                                                                         |                                                                                                                                                                |                                                                                                    |                                                                                 |
| 5                                                        | 5                                                               | 5                                                                                                                                       | 4                                                                                                                                                              | M                                                                                                  |                                                                                 |
| D: DC220V<br>N: AC230V<br>V: AC400V<br>5: Without MCH+XF | D: DC220V<br>N: AC230V<br>V: AC400V<br>5: Without shunt release | N: AC230V<br>V: AC400V<br>P: with undervoltage delayed AC230V<br>T: with undervoltage delayed AC400V<br>5: Without undervoltage release | 4: NO+4NC<br>6: 6NO+6NC                                                                                                                                        | L: iTR326(50Hz)<br>M: iTR326A(50Hz)<br>H: iTR326H((50/60Hz)<br>E: iTR326(60Hz)<br>T: iTR326A(60Hz) |                                                                                 |

Example: HDW316M163FH5554M: HDW3-1600M 1600A 3P Fixed breaker, M type controller, without accessory.



HDW3 Air Circuit Breakers

Standard: IEC/EN IEC60947-2



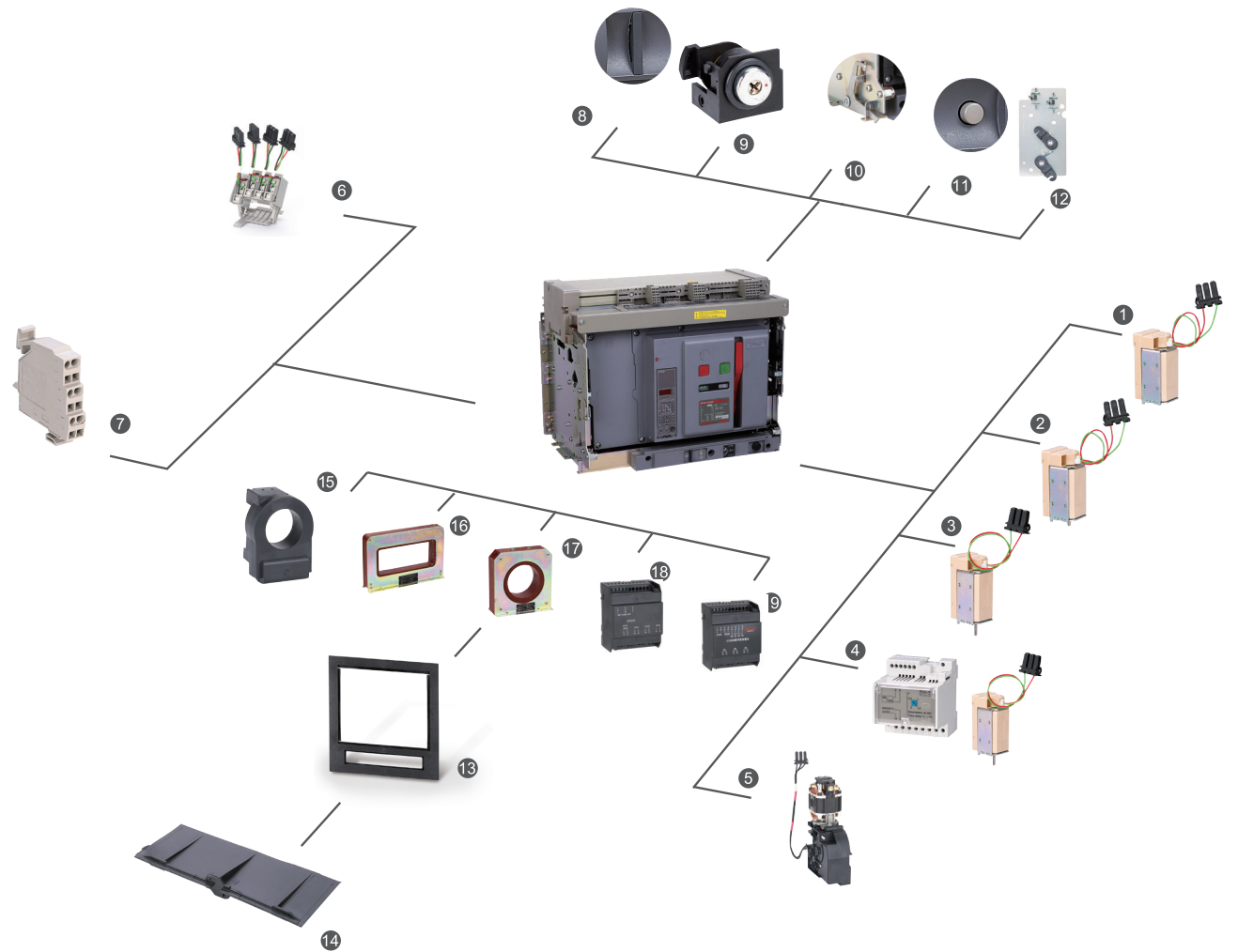
| Technical Parameters                 |                     |                                 |       |                                  |       |                  |       |                              |       |                            |       |
|--------------------------------------|---------------------|---------------------------------|-------|----------------------------------|-------|------------------|-------|------------------------------|-------|----------------------------|-------|
| Air Circuit Breakers                 |                     | HDW3                            |       |                                  |       |                  |       |                              |       |                            |       |
| Frame size                           |                     | 1600M                           | 1600S | 2000M                            | 2000S | 3200M            | 3200S | 4000M                        | 4000S | 6300M                      | 6300S |
| Rated current                        |                     | 400, 630, 800, 1000, 1250, 1600 |       | 630, 800, 1000, 1250, 1600, 2000 |       | 2000, 2500, 3200 |       | 1600, 2000, 2500, 3200, 4000 |       | 4000, 5000, 6300 (3P only) |       |
| Breaking capacity                    |                     |                                 |       |                                  |       |                  |       |                              |       |                            |       |
| Icu(kA)                              | 400/415V            | 50                              | 42    | 80                               | 65    | 80               | 65    | 100                          | 85    | 120                        | 85    |
|                                      | 660/690V            | 35                              | 35    | 50                               | 40    | 65               | 50    | 65                           | 65    | 85                         | 75    |
| Ics(kA)                              | 400/415V            | 42                              | 42    | 65                               | 65    | 65               | 65    | 85                           | 85    | 100                        | 85    |
|                                      | 660/690V            | 35                              | 35    | 40                               | 40    | 50               | 50    | 65                           | 65    | 75                         | 75    |
| Icw(kA)                              | 400/415V            | 42                              | 42    | 65                               | 65    | 65               | 65    | 85                           | 85    | 85                         | 85    |
|                                      | 660/690V            | 35                              | 35    | 40                               | 40    | 50               | 50    | 65                           | 65    | 75                         | 75    |
| Mechanical life                      | Without maintenance | 12500                           |       | 15000                            |       | 10000            |       | 10000                        |       | 2500                       |       |
|                                      | With maintenance    | 25000                           |       | 30000                            |       | 20000            |       | 20000                        |       | 5000                       |       |
| Electrical life                      | 400/415V            | 6000                            |       | 6500                             |       | 5000             |       | 5000                         |       | 800                        |       |
|                                      | 690V                | 4000                            |       | 4000                             |       | 3000             |       | 3000                         |       | 500                        |       |
| Dimension(mm)H*W*D                   |                     |                                 |       |                                  |       |                  |       |                              |       |                            |       |
| Draw-out                             | 3P                  | 322*288*330                     |       | 436*405*425                      |       | 436*465*425      |       | 439*441*428.6                |       | 441.5*815*508              |       |
|                                      | 4P                  | 322*358*330                     |       | 436*500*425                      |       | 436*580*425      |       | 439*556*428.6                |       | 441.5*930*508              |       |
| Fixed                                | 3P                  | 310*276*229                     |       | 397*364*327                      |       | 397*428*327      |       | 352*422*329.5                |       | /                          |       |
|                                      | 4P                  | 310*346*229                     |       | 397*459*327                      |       | 397*543*327      |       | 352*537*329.5                |       | /                          |       |
| Weight(KG)                           |                     |                                 |       |                                  |       |                  |       |                              |       |                            |       |
| Draw-out type                        | 3P                  | 34                              |       | 73.8                             |       | 93.8             |       | 78                           |       | 233                        |       |
|                                      | 4P                  | 41                              |       | 85.5                             |       | 115              |       | 95                           |       | 271.8                      |       |
| Fixed type                           | 3P                  | 14                              |       | 41.4                             |       | 53.4             |       | 42                           |       | /                          |       |
|                                      | 4P                  | 17                              |       | 52                               |       | 68               |       | 52                           |       | /                          |       |
| Tripping time                        |                     |                                 |       |                                  |       |                  |       |                              |       |                            |       |
| Tripping time with arc extinguishing |                     | ≤25ms                           |       |                                  |       |                  |       |                              |       |                            |       |
| Closing time                         |                     | ≤70ms                           |       |                                  |       |                  |       |                              |       |                            |       |

HDW3 Air Circuit Breakers

Standard: IEC/EN IEC60947-2



Overview of Accessories



| Remote Operation             | Indication Contact    | Lock and Connection                                        | Operation and protection    | Controller accessories          |
|------------------------------|-----------------------|------------------------------------------------------------|-----------------------------|---------------------------------|
| 1 Shunt coil                 | 6 Auxiliary switch OF | 8 Padlock                                                  | 13 Door frame               | 15 N phase external transformer |
| 2 Closing coil               | 7 Secondary terminal  | 9 Key lock                                                 | 14 Phase partition          | 16 Leakage current transformer  |
| 3 Undervoltage release       |                       | 10 Door lock                                               |                             | 17 Ground transformer           |
| 4 Undervoltage delay release |                       | 11 Connection, separation, test position locking mechanism | 18 Power module             |                                 |
| 5 Motor operating mechanism  |                       | 12 Mechanical interlocking                                 | 19 Signal conversion module |                                 |

HDW3 Air Circuit Breakers

Standard: IEC/EN IEC60947-2



Intelligent Controller Introduction



| Intelligent Controller Introduction |                                                                                                                                                                               |                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | iTR326                                                                                                                                                                        | iTR326A                                                                                                                                                                       | iTR326H                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Protection function                 | Overload protection L<br>Short-circuit protection with short delay S<br>Short-circuit protection instantaneous I<br>Ground protection G<br>MCR Protection<br>HSISC protection | Overload protection L<br>Short-circuit protection with short delay S<br>Short-circuit protection instantaneous I<br>Ground protection G<br>MCR protection<br>HSISC protection | Overload protection L<br>Short-circuit protection with short delay S<br>Short-circuit protection instantaneous I<br>Ground protection G<br>MCR protection<br>HSISC protection<br>Under voltage protection/alarm<br>Overvoltage protection/alarm<br>voltage unbalance protection /alarm<br>Phase sequence protection/alarm<br>Low frequency protection/alarm<br>High frequency protection/alarm<br>Reverse power protection/alarm |
| Measurement                         |                                                                                                                                                                               | Current measurement                                                                                                                                                           | Current measurement<br>Voltage measurement<br>Power measurement<br>Frequency measurement<br>Harmonics measurement                                                                                                                                                                                                                                                                                                                |
| Auxiliary                           | Pre-alarm<br>Event record<br>Test                                                                                                                                             | Pre-alarm<br>Self-diagnostic<br>Event record<br>Test                                                                                                                          | Pre-alarm<br>Self-diagnostic<br>Event record<br>Test                                                                                                                                                                                                                                                                                                                                                                             |
| Display                             |                                                                                                                                                                               | LED                                                                                                                                                                           | LCD                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Special function                    |                                                                                                                                                                               |                                                                                                                                                                               | Load monitoring<br>Zone selective interlock                                                                                                                                                                                                                                                                                                                                                                                      |
| Communication                       |                                                                                                                                                                               |                                                                                                                                                                               | Modbus                                                                                                                                                                                                                                                                                                                                                                                                                           |

ATSE Automatic Transfer Switch Controllers

Standard: IEC60947-6

Range Presentation

HDW3 ATSE is Himel 3 series range of automatic transfer switch controllers designed with programmable functions, automatic measuring, LCD display and digital communication.

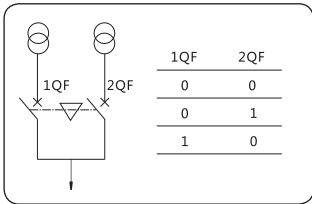
HDW3 ATSE can realize electrical parameters measurement and automatic control according to settings strategy reducing human operation errors.

Features

◆ HDW3 ATSE consists of microprocessor as core. 3-phase voltage and make precise recognition about abnormal voltage (over-voltage, under-voltage, missing phase, over-frequency, under-frequency) . This device considers fully the application with compact structure, advanced circuit, simple wiring, highly reliable, it can be widely applied to electrical devices, automatic control and debug system in industry of power, post and telecommunications, petroleum, coal, metallurgical, railway,

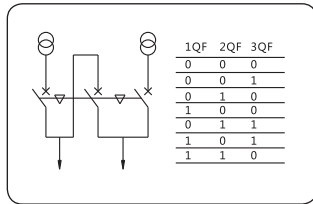
Two Breaker Interlock C2

Interlock type A in which one of the two breakers (B1 or B2)can be switched ON. Each breaker must be equipped with a factory mounted interlock type A. Two cables are needed.



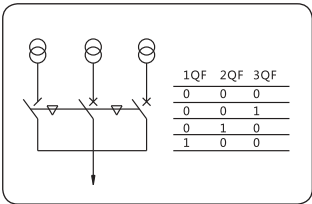
Three Breaker Interlock C3

Interlock type B in which one of the three breakers (B1, B2 or B3) can be switched ON. Each breaker must be equipped with a factory mounted interlock type B. Six cables are needed.



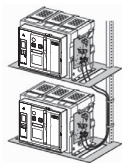
Three Breaker Interlock type CM

Interlock type A in which one of the two breakers (B1 or B2)can be switched ON. Each breaker must be equipped with a factory mounted interlock type A. Two cables are needed.



TS Controller + ACB + Mechanical Interlock

Two Breaker Interlock type C2

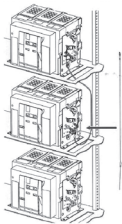


Two Breaker Interlock type A +



ATSEC2

Three Breaker Interlock type C3

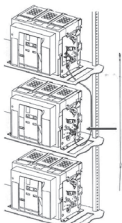


Three Breaker Interlock type B +

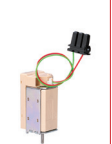


ATSEC3

Three Breaker Interlock type CM



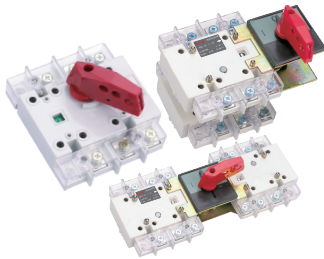
Three Breaker Interlock type C +



ATSECM

HDGL Switch Disconnectors

Standard: IEC60947-3



Range Presentation

HDGL is Himel range of Switch Disconnectors used in power distribution system for isolation and switching.

Features

- ◆ For AC 50/60Hz systems
- ◆ Max. rated operating voltage: 690V
- ◆ Max. rated operating current: 3150A

Online Content



HDGL

Selection Code

| Range name | Type                                                          | Frame current                                                                             | Pole number    | Shaft                                                                | Window                                         | Rated current                                                                                           |
|------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| HDGL       | Z                                                             | 160                                                                                       | 3              | J                                                                    | K                                              | 100                                                                                                     |
| HDGL       | Default: Normal type<br>Z: Overlap type<br>ZC: Symmetric type | 63: 63A<br>100: 100A<br>160: 160A<br>250: 250A<br>630: 630A<br>1600: 1600A<br>3150: 3150A | 3: 3P<br>4: 4P | Default: no shaft<br>J: External operation with extended shaft 300mm | Default: no window<br>K: with observing window | 16: 16A<br>25: 25A<br>32: 32A<br>40: 40A<br>63: 63A<br>...<br>2000: 2000A<br>2500: 2500A<br>3150: 3150A |



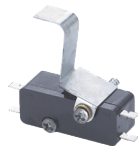
| Technical Parameters                      |                   |           |                |            |            |            |                       |                   |
|-------------------------------------------|-------------------|-----------|----------------|------------|------------|------------|-----------------------|-------------------|
| Switch Disconnectors                      | HDGL              |           |                |            |            |            |                       |                   |
| Utilization Category                      | AC-22B            |           |                |            |            |            |                       |                   |
| Conventional free air thermal current (A) | 16 25<br>32 40 63 | 80<br>100 | 100<br>125 160 | 200<br>250 | 315<br>400 | 500<br>630 | 800 1000<br>1250 1600 | 2000 2500<br>3150 |
| Power frequency withstand voltage (V)     | 2000              |           |                |            |            |            |                       |                   |
| Rated insulation voltage (V)              | 800               |           |                |            |            |            |                       |                   |
| Rated impulse with-stand voltage Uimp     | 12kV(2000m)       |           |                |            |            |            |                       |                   |
| Rated short-time withstand current (kA)   | 2                 |           | 12             |            | 20         | 25         | 50                    |                   |
| Mechanical Endurance                      | 8000              |           |                |            | 5000       |            | 3000                  | 1000              |
| Electrical Endurance                      | 1500              |           | 200            |            |            | 100        |                       |                   |

- Note:
- Default length of the extended shaft for external operation handle is 300mm, (500mm available on request).
  - Window: no window for 16-100A, and 125A-3150A can be manufactured with window
  - No auxiliary contact for 16-100A
  - Maximum rated current for symmetric type double-throw switch is 1600A

HDGL Switch Disconnectors

Standard: IEC60947-3

Accessories Selection Code



HDGL1600OF11



HDGL3150OF11



HDGLZ(C)630OF11



HDGL100J300



HDGL630J300



HDGL3150J300



HDGL3150JB300



HDGLZ630J300

| Standard Reference | Description                                                            |
|--------------------|------------------------------------------------------------------------|
| HDGL1600OF11       | HDGL-100~1600A Auxiliary contact 1NO1NC                                |
| HDGL1600OF22       | HDGL-100~1600A Auxiliary contact 2NO2NC                                |
| HDGL3150OF11       | HDGL-2000~3150A Auxiliary contact 1NO1NC                               |
| HDGL3150OF22       | HDGL-2000~3150A Auxiliary contact 2NO2NC                               |
| HDGLZ630OF11       | HDGLZ-100~630A Auxiliary contact 1NO1NC                                |
| HDGLZ630OF22       | HDGLZ-100~630A Auxiliary contact 2NO2NC                                |
| HDGLZ3150OF11      | HDGLZ-800~3150A Auxiliary contact 1NO1NC                               |
| HDGLZ3150OF22      | HDGLZ-800~3150A Auxiliary contact 2NO2NC                               |
| HDGLZC630OF11      | HDGLZC-100~630A Auxiliary contact 1NO1NC                               |
| HDGLZC630OF22      | HDGLZC-100~630A Auxiliary contact 2NO2NC                               |
| HDGLZC1600OF11     | HDGLZC-800~1600A Auxiliary contact 1NO1NC                              |
| HDGLZC1600OF22     | HDGLZC-800~1600A Auxiliary contact 2NO2NC                              |
|                    |                                                                        |
| HDGL100J300        | HDGL(Z)(C) 16~100A External operation handle with 300mm shaft          |
| HDGL630J300        | HDGL 100~630A External operation handle with 300mm shaft               |
| HDGL3150J300       | HDGL(Z)(C) 800~3150AF External operation handle with 300mm shaft       |
| HDGL3150JB300      | HDGL(Z)(C) 800~3150A External operation handle with 300mm shaft B type |
| HDGLZ630J300       | HDGLZ(C) 100~630A External operation handle with 300mm shaft           |



LOW VOLTAGE DISTRIBUTION

# HRT Fuses & Fuse Holders

Standard: EN60269



Online Content



HRT16



HRT18



Range Presentation

HRT series is Himel range of Fuses.

- HRT16: Knife-shape Contact Fuses
- HRT18: Cylinder Cap-shape Fuses

Features

- ◆ For HRT16 series:
  - 26 ratings from 2A to 630A
  - 5 fuse models and 4 fuse holder models according to dimensions
- ◆ For HRT18 series:
  - 13 ratings from 2A to 63A
  - 2 kinds of materials for fuse holders: Resin and Nylon Indicator can be an option for customers

HRT16 Selection Code

| Range name                      | Fuse-link type                                                                                                                            | Rated operating current                                                                                         |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>HRT16</b>                    | <b>000S</b>                                                                                                                               | <b>2</b>                                                                                                        |
| <b>HRT16:</b> HRT16 Fuse        | <b>000S:</b> 00C<br><b>00:</b> 00<br><b>1:</b> 1<br><b>2:</b> 2<br><b>3:</b> 3                                                            | <b>2:</b> 2A<br><b>4:</b> 4A<br><b>6:</b> 6A<br>...<br><b>450:</b> 450A<br><b>500:</b> 500A<br><b>630:</b> 630A |
| <b>HRT16:</b> HRT16 Fuse Holder | <b>00:</b> rated current is 160A<br><b>1:</b> rated current is 250A<br><b>2:</b> rated current is 400A<br><b>3:</b> rated current is 630A | <b>ZS:</b> Resin Material                                                                                       |

HRT18 Selection Code

| Range name               |                                    | Fuse-link type                                             | Rated operating current                         |                                                            |
|--------------------------|------------------------------------|------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------|
| HRT18                    |                                    | 1038                                                       | 2                                               |                                                            |
| HRT18: HRT18 Fuse        |                                    | 1038: maximum rating is 32A<br>1451: maximum rating is 63A | 2: 2A<br>4: 4A<br>...<br>63: 63A                |                                                            |
| Range name               | Rated current                      | Pole number                                                | Indicator                                       | Material                                                   |
| HRT18                    | 32Z                                | 2                                                          | X                                               | B                                                          |
| HRT18: HRT18 Fuse Holder | 32Z: 32A holder<br>63Z: 63A holder | Default: 1P<br>2: 2P<br>3: 3P                              | Default: Without indicator<br>X: With indicator | Default: Nylon (only available for 32A holder)<br>B: Resin |

| Technical Parameters    |                        |             |
|-------------------------|------------------------|-------------|
| Product Series          | HRT16                  | HRT18       |
| Rated operating current | 2-630A                 | 2-63A       |
| Rated operating voltage | AC500/690V DC250/440V  | AC380V-500V |
| Rated breaking capacity | 120kA(500V) 50kA(690V) | 100kA       |

# POWER FACTOR CORRECTION



HDCAP3 Low-voltage Capacitors

NEW



HDCAP3

Rated voltage: AC 400V, 450V, 525V  
Rated capacity: 1-30kvar  
Connection type: three-phase  
Rated frequency: 50Hz

050

HKSG Three-phase Serial Reactors

NEW



HKSG

Rated voltage: AC 450V, 480V, 525V  
Detuning: 6%, 7%, 12%, 14%  
Connection type: three-phase

054

HBSM Low-voltage Capacitors

NEW



HBSM

Rated voltage: AC 230V, 250V, 280V, 400V, 415V, 440V, 450V, 480V, 525V, 660V  
Rated capacity: 0.5~60kvar  
Single-phase, three-phase, three-phase four-wire  
Rated frequency: 50Hz

051

HDC19s Capacitor Switching Contactors



HDC19s

Rated voltage: AC 380/400V  
Frame current: 25A, 32A, 43A, 63A, 95A, 115A  
Pole: 3P  
Rated frequency: 50Hz, 50/60Hz

055

HJKL Reactive Power Compensation Controllers

NEW



HJKL

Sampling voltage: AC 380V/220V±15%  
Sampling current: n/5A ( Is≤5A )  
Output loops: 4, 6, 8, 10, 12 loops

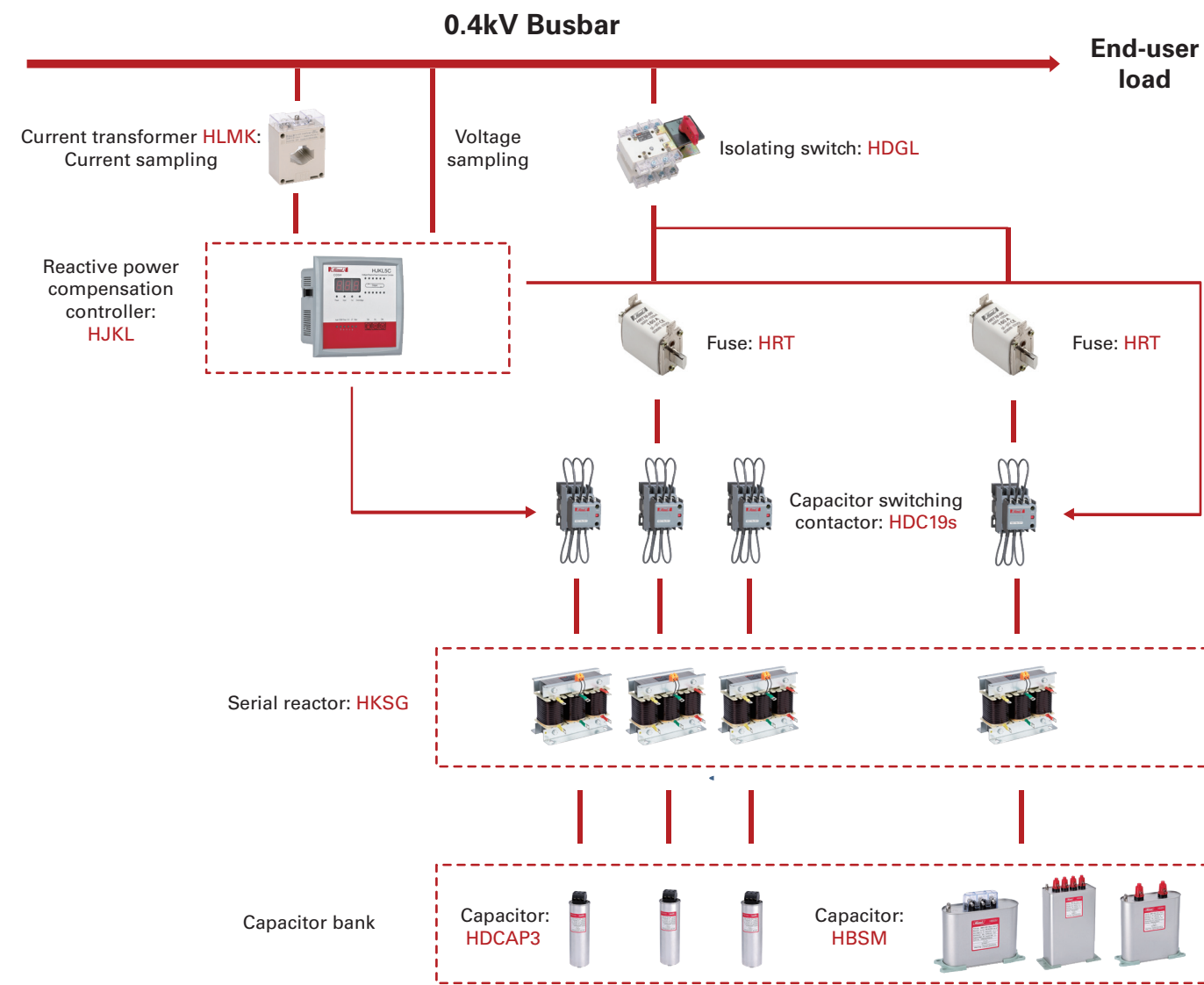
053

POWER FACTOR CORRECTION

# Power Factor Correction Solution

Standard: IEC60947-4-1, IEC60947-5-1

Reactive Power Compensation Solution



System solution for reactive power compensation cabinet.

POWER FACTOR CORRECTION

# HDCAP3 Low-voltage Capacitors

Standard: IEC60831



Range Presentation

Power Factor Correction capacitors with and without reactor form part of a comprehensive offer of products perfectly coordinated to meet low-voltage power distribution needs.

HDCAP3: Cylinder type

Features

- ◆ Low loss of medium and temperature with long serving time to save electricity bill.
- ◆ Metallized Polypropylene technology with built-in SELF HEALING properties.
- ◆ Full specifications:
  - **HDCAP3**
  - Capacity:** 1-30kvar
  - Voltage:** 400V, 450V, 525V
  - Connection type:** Three-phase

Online Content



HDCAP3

Selection Code

HDCAP3 series

| Range name            | Rated voltage                          | Rated compensation capacity                                             | Compensation method         |
|-----------------------|----------------------------------------|-------------------------------------------------------------------------|-----------------------------|
| <b>HDCAP3</b>         | <b>400</b>                             | <b>5</b>                                                                | <b>3</b>                    |
| HDCAP3: Cylinder type | 0400: 400V<br>0450: 450V<br>0525: 525V | 005: 5kvar<br>705: 7.5kvar<br>010: 10kvar<br>025: 25kvar<br>030: 30kvar | 3: Three-phase compensation |

| Technical Parameters          |                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------|
| Low-voltage Capacitor         | HDCAP3                                                                                           |
| Rated Voltage(AC)             | 400V, 450V, 525V                                                                                 |
| Rated Capacity                | 1-30kvar                                                                                         |
| Capacity deviation (μF)       | 0~+10% of the rated capacity                                                                     |
| Loss angle tangent (tan)      | At the rated power-frequency voltage, 20°C tan δ≤0.2%                                            |
| Connection Type               | Three-phase                                                                                      |
| Rated Frequency               | 50Hz                                                                                             |
| Ambient Temperature           | -25°C ~+50°C                                                                                     |
| AC withstand voltage          | Inter-electrode: 2.15Un/10s<br>Between shell and phase: 3kV/10s                                  |
| Allowable over-voltage (Un)   | 1.10 of rated voltage (not greater than 8h in 24h)                                               |
| Allowable over-current (In)   | 1.43 of rated current                                                                            |
| Altitude                      | ≤2000m                                                                                           |
| Relative humidity             | ≤50% at 40°C<br>≤90% at 20°C                                                                     |
| Appearance                    | Cylinder                                                                                         |
| Inside Dipping Material       | Polypropylene metallized film                                                                    |
| Self discharge characteristic | The residual voltage reduces to 50V or below from √ 2Un after 3 minutes in case of power failure |
| Standard                      | IEC60831                                                                                         |

HBSM Low-voltage Capacitors

Standard: IEC60831



Range Presentation

Power Factor Correction capacitors with and without reactor form part of a comprehensive offer of products perfectly coordinated to meet low-voltage power distribution needs.

HBSM: Box type

Features

- ◆ Low loss of medium and temperature with long serving time to save eletrtricity bill.
- ◆ Metallized Polypropylene technology with built-in SELF HEALING properties.
- ◆ Full specifications:
  - **HBSM: Capacity:** 0.5~60kvar
  - Voltage:** 230V, 250V, 280V, 400V, 415V, 440V, 450V, 480V, 525V, 660V, 690V, 760V
  - Connection type:** Single-phase, three-phase, three-phase four-wire
  - Housing type:** D, M and Q

Online Content



HBSM

| HBSM series    |                         |                                                                                                                                                                                                                        |                                                                                                                                                                                 |                                                                                                                  |                                             |
|----------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Range name     | With or without reactor | Rated voltage                                                                                                                                                                                                          | Rated compensation capacity                                                                                                                                                     | Compensation method                                                                                              | Housing type                                |
| HBSM           | 0                       | 04500                                                                                                                                                                                                                  | 0150                                                                                                                                                                            | 3                                                                                                                | D                                           |
| HBSM: Box type | 0: Without reactor      | 02300: 230V<br>02500: 250V<br>02800: 280V<br>04000: 400V<br>04150: 415V<br>04500: 450V<br>04800: 480V<br>05250: 525V<br>06900: 690V<br>07500: 750V<br>02303: 230√3V<br>02503: 250√3V<br>02803: 280√3V<br>04003: 400√3V | 0005: 0.5kvar<br>...<br>0075: 7.5kvar<br>...<br>0100: 10kvar<br>...<br>0150: 15kvar<br>...<br>0200: 20kvar<br>...<br>0300: 30kvar<br>...<br>0400: 40kvar<br>...<br>0600: 60kvar | 1: Single-phase compensation<br><br>3: Three-phase compensation<br><br>4: Three-phase four-wire compensation 3YN | D: D type<br><br>M: M type<br><br>Q: Q type |
|                | 1: With reactor         |                                                                                                                                                                                                                        |                                                                                                                                                                                 |                                                                                                                  |                                             |

| Technical Parameters          |                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------|
| Low-voltage Capacitor         | HBSM                                                                                             |
| Rated Voltage(AC)             | 230V, 250V, 280V, 400V, 415V, 440V, 450V, 480V, 525V, 660V                                       |
| Rated Capacity                | 0.5-60kvar                                                                                       |
| Capacity deviation (μF)       | 0~+10% of the rated capacity                                                                     |
| Loss angle tangent (tan)      | At the rated power-frequency voltage, 20℃ tan δ≤0.2%                                             |
| Connection Type               | Single-phase, three-phase, three-phase four-wire                                                 |
| Rated Frequency               | 50Hz                                                                                             |
| Ambient Temperature           | -25℃ ~ +50℃                                                                                      |
| AC withstand voltage          | Inter-electrode: 2.15Un/10s                                                                      |
|                               | Between shell and phase: 3kV/10s                                                                 |
| Allowable over-voltage (Un)   | 1.10 of rated voltage (not greater than 8h in 24h)                                               |
| Allowable over-current (In)   | 1.43 of rated current                                                                            |
| Altitude                      | ≤2000m                                                                                           |
| Relative humidity             | ≤50% at 40℃                                                                                      |
|                               | ≤90% at 20℃                                                                                      |
| Appearance                    | Box                                                                                              |
| Inside Dipping Material       | Polypropylene metallized film                                                                    |
| Self discharge characteristic | The residual voltage reduces to 50V or below from √ 2Un after 3 minutes in case of power failure |
| Standard                      | IEC60831                                                                                         |

HBSM Low-voltage Capacitors

Standard: IEC60831

HBSM Model Selection

|              | Single phase |      |       | Three-phase |      |       | Three-phase four-wire |      |      |
|--------------|--------------|------|-------|-------------|------|-------|-----------------------|------|------|
| Voltage (kV) | 0.4          | 0.45 | 0.525 | 0.4         | 0.45 | 0.525 | 0.23                  | 0.25 | 0.28 |
| 5            | D130         | D130 | D130  | D130        | D130 | D130  | D130                  | D130 | D130 |
| 6            | D130         | D130 | D130  | D130        | D130 | D130  | D130                  | D130 | D130 |
| 7.5          | D130         | D130 | D130  | D130        | D130 | D130  | D210                  | D210 | D210 |
| 8            | D130         | D130 | D130  | D130        | D130 | D130  | D210                  | D210 | D210 |
| 10           | D130         | D130 | D130  | D130        | D130 | D130  | D210                  | D210 | D210 |
| 12           | D185         | D185 | D185  | D185        | D185 | D185  | D210                  | D210 | D210 |
| 14           | D185         | D185 | D185  | D185        | D185 | D185  |                       |      |      |
| 15           | D185         | D185 | D210  | D185        | D185 | D210  | D290                  | D290 | D290 |
| 16           | D185         | D185 | D210  | D185        | D185 | D210  | D290                  | D290 | D290 |
| 18           | D210         | D210 | D210  | D210        | D210 | D210  | D290                  | D290 | D290 |
| 20           | D210         | D210 | D290  | D210        | D210 | D290  | M265                  | M265 | M265 |
| 24           | D245         | D245 | D290  | D245        | D245 | D290  | M265                  | M265 | M265 |
| 25           | D245         | D245 | D290  | D245        | D245 | D290  | Q210                  | Q210 | Q210 |
| 28           | D290         | D290 | D290  | D290        | D290 | D290  | Q210                  | Q210 | Q210 |
| 30           | D290         | D290 | M265  | D290        | D290 | M265  | Q210                  | Q210 | Q210 |
| 35           | M265         | M265 | M265  | M265        | M265 | M265  | Q240                  | Q240 | Q240 |
| 40           | M265         | M265 | Q210  | M265        | M265 | Q210  |                       | Q240 | Q240 |
| 45           | Q210         | Q210 | Q210  | Q210        | Q210 | Q210  |                       |      | Q240 |
| 50           | Q210         | Q210 | Q210  | Q210        | Q210 | Q210  |                       |      |      |
| 60           | Q240         | Q240 | Q240  | Q240        | Q240 | Q240  |                       |      |      |



POWER FACTOR CORRECTION

HJKL Power Factor Correction Controllers

Standard: IEC60831



Range Presentation

HJKL is Himel range of reactive power compensation controllers, matching all kinds of capacitors in low-voltage system. It adopts MCU controlling to compute the phase difference between the fundamentals of current and voltage, enabling precise power factor measurement with quick response.

Features

- ◆ New control algorithm designed to reduce the number of switching operations and quickly attain the targeted power factor.
- ◆ Quick and simple mounting and wiring.
- ◆ Direct viewing of installation electrical information and capacitor condition.
- ◆ Direct reading and easy setup
- ◆ Alarm indication.

Online Content



HJKL

Selection Code

| Range name                          | Output loops                                                | Circuit type               | Enclosure material    |
|-------------------------------------|-------------------------------------------------------------|----------------------------|-----------------------|
| <b>HJKL2CM</b>                      | <b>4</b>                                                    | <b>DC</b>                  | <b>S</b>              |
| <b>HJKL2CM:</b><br>220V, for HJKL2C | <b>4:</b> 4 loops<br><b>6:</b> 6 loops<br><b>8:</b> 8 loops | <b>Default:</b> AC circuit | <b>S:</b> Molded case |
| <b>HJKL5CQ:</b><br>380V, for HJKL5C | <b>10:</b> 10 loops<br><b>12:</b> 12 loops                  | <b>DC:</b> DC 12V          |                       |

| Technical Parameters                |                                                    |                        |
|-------------------------------------|----------------------------------------------------|------------------------|
| Power Factor Correction Controllers | HJKL                                               |                        |
| Category                            | Parameter value                                    | Default Value          |
| Sampling voltage                    | 380V(HJKL5C)/ 220V(HJKL2C)±15%                     |                        |
| Sampling current                    | n/5A ( Is≤5A )                                     |                        |
| Frequency                           | 50-60(Hz)                                          |                        |
| Sensitivity                         | 50mA                                               |                        |
| Input threshold                     | lag 0.80-lead-0.82 adjustable step 0.01            | 0.95                   |
| Cut-off threshold                   | lead-0.80-lag0.82 adjustable step 0.01             | -0.99                  |
| Loop setting                        | 1-12 adjustable step 1                             |                        |
| Time setting                        | 1s~120s adjustable step 1s                         | 30s                    |
| Overvoltage setting                 | 400~450V (HJKL5C) adjustable step 5V               | 430V                   |
|                                     | 235~260V(HJKL2C)adjustable step 5V                 | 245V                   |
| Undervoltage protection             | 300V(HJKL5C) / 170V(HJKL2C)                        |                        |
| Undercurrent setting                | 0mA~500mA adjustable step 50mA                     | 200mA (0 is for close) |
| COS display                         | Lead & Lag (0.00~0.99) resolution 0.01             |                        |
| Working methods                     | Continuous working, circular switching             |                        |
| Output loops                        | 4, 6, 8, 10, 12 loops                              |                        |
| Capacity of output                  | Each group 5A, 220V resistive / 3A, 380V resistive |                        |
| IP grade                            | IP30 for cover                                     |                        |

POWER FACTOR CORRECTION

HKSG Detuned Reactors

Standard: IEC60289



Range Presentation

HKSG is Himel range of Detuned Reactors, applied to avoid excessive amplification of power grid harmonics and resonance resulting from the connection of capacitor banks. HKSG with prolong the service time of capacitors.

Features

- ◆ High temperature tolerance
- ◆ Low noise during operation

Online Content



HKSG

Selection Code

| Range name                                                      | Rated capacity                                                                              | Rated voltage                                                      | Reactance ratio                                          |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------|
| <b>HKSG</b>                                                     | <b>1P0</b>                                                                                  | <b>G045</b>                                                        | <b>H6</b>                                                |
| <b>HKSG:</b> Copper windings<br><b>HKSSL:</b> Aluminum windings | <b>P6:</b> 0.6kvar<br><b>P7:</b> 0.7kvar<br><b>1P0:</b> 1kvar<br>...<br><b>9P8:</b> 9.8kvar | <b>G045:</b> 450V<br><b>G048:</b> 480V<br>...<br><b>G052:</b> 525V | <b>H6:</b> 6%<br><b>H7:</b> 7%<br>...<br><b>H14:</b> 14% |

\*Customization is available for all request.

| Technical Parameters        |                                                           |
|-----------------------------|-----------------------------------------------------------|
| Detuned Reactors            | HKSG                                                      |
| Rated operating voltage(AC) | AC0.45kV, AC0.525kV, AC0.48kV (others can be customized)  |
| Reactance ratio             | 6%, 7%, 12%, 14%                                          |
| Phase                       | Three-phase                                               |
| Rated frequency             | 50/60Hz                                                   |
| Withstand voltage grade     | 3000V / min                                               |
| Overload ability            | ≤1.35                                                     |
| Temperature rise limitation | Coil temperature rise≤85K<br>Winding temperature rise≤95K |
| Reactor noise               | < 50dB                                                    |
| Insulation class            | > F                                                       |
| IP grade                    | IP00                                                      |
| Altitude                    | ≤2000m                                                    |
| Ambient temperature         | -25℃ ~+50℃                                                |
| Standard                    | IEC 60289                                                 |

POWER FACTOR CORRECTION

HDC19s Capacitor Switching Contactors

Standard: IEC60947-4-1, IEC60947-5-1



Online Content



HDC19s

Range Presentation

HDC19s is Himel range of contactors dedicated for switching of capacitors. It is developed based on 3 series contactor with technology to reduce capacitor closing current impact on contactor contacts.

Features

- ◆ Current range covers from 25A to 115A
- ◆ Various auxiliary contact types can be seleted for different applications
- ◆ Manufactured on automated production line for better reliability.

Selection Code

| Range name                            | Frame current                                                    | Auxiliary contact                                                                                                | Coil voltage                                                                      | Frequency             |
|---------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------|
| HDC19s                                | 25                                                               | 11                                                                                                               | M                                                                                 | 5                     |
| HDC19s: Capacitor Switching Contactor | 25: 25A<br>32: 32A<br>43: 43A<br>63: 63A<br>95: 95A<br>115: 115A | HDC19s-25~43A:<br>11: 1NO+1NC<br>20: 2NO+0NC<br>02: 0NO+2NC<br><br>HDC19s-63~115A:<br>12: 1NO+2NC<br>21: 2NO+1NC | F: 110V<br>S: 127V<br>M: 220/230V<br>U: 240V<br>Q: 380/400V<br>L: 415V<br>X: 440V | 5: 50Hz<br>7: 50/60Hz |

| Technical Parameters                              |                                      |             |                                              |           |           |           |           |            |
|---------------------------------------------------|--------------------------------------|-------------|----------------------------------------------|-----------|-----------|-----------|-----------|------------|
| Capacitor Switching Contactors                    |                                      |             | HDC19s-25                                    | HDC19s-32 | HDC19s-43 | HDC19s-63 | HDC19s-95 | HDC19s-115 |
| Standard                                          |                                      |             | IEC60947-4-1, IEC60947-5-1                   |           |           |           |           |            |
| Certificate                                       |                                      |             | CE                                           |           |           |           |           |            |
| Main circuit                                      |                                      |             |                                              |           |           |           |           |            |
| Rated operating voltage (Ue)                      |                                      | V           | 380/400                                      |           |           |           |           |            |
| Rated insulation voltage (Ui)                     |                                      | V           | 690                                          |           |           |           |           |            |
| Rated current of controlled capacitor             | AC-6b 380V                           | A           | 17                                           | 23        | 29        | 43        | 63        | 87         |
| Rated capacity of controlled capacitor (Qn: kvar) | Rated operating voltage of capacitor | AC-6b 220V  | 6                                            | 10        | 15        | 18        | 30        | 35         |
|                                                   |                                      | AC-6b 380V  | 12                                           | 20        | 25        | 30        | 50        | 60         |
| Rated conventional thermal current                |                                      | A           | 25                                           | 32        | 43        | 63        | 95        | 125        |
| Controlling capability of inrush current          |                                      | A           | ≤35In                                        |           |           | ≤55In     |           |            |
| Mechanical endurance                              |                                      | 10000 times | 100                                          |           |           |           |           |            |
| Electrical endurance                              | AC-6b 380V                           | 10000 times | 15                                           |           |           |           | 12        |            |
| Operating frequency                               | AC-6b 380V                           | Times/h     | 300                                          |           |           |           | 120       |            |
| Coil                                              |                                      |             |                                              |           |           |           |           |            |
| Coil voltage (Us)                                 |                                      | V           | 24,36,48,110,127,220/230,240,380/400,415,440 |           |           |           |           |            |
| Coil frequency                                    |                                      | Hz          | AC 50Hz & 50/60Hz                            |           |           |           |           |            |
| Operating voltage                                 |                                      | V           | 85%-110%Us                                   |           |           |           |           |            |
| Drop-out voltage                                  |                                      | V           | 20%-75%Us                                    |           |           |           |           |            |
| Auxiliary Contact                                 |                                      |             |                                              |           |           |           |           |            |
| Auxiliary contact combination                     |                                      |             | 11,20,02                                     |           |           | 12,21     |           |            |
| Rated conventional thermal current (Ith)          |                                      | A           | 10                                           |           |           |           |           |            |

Note: Parameters above are considered under three-phase system; for single-phase capacitor, please consult us.

MOTOR MANAGEMENT



HDC3 AC Contactors



HDC3

Rated current: 6-95A  
Pole: 3P  
\* 120~630A available early 2021

058

HJX2 4P AC Contactors



HJX2 4P

Rated current: 9-95A  
Pole: 4P

073

HDR3s Thermal Overload Relays



HDR3s

Frame rated current: 25, 38, 93A  
Setting current: 0.1-93A  
\* 120~630A available early 2021

065

HJX2-F 4P AC Contactors



HJX2-F 4P

Rated current: 115-800A  
Pole: 4P

075

HDC6 AC Contactors



HDC6

Rated current: 6-95A,115-630A  
Pole: 3P

066

HJSZ3 Electronic Time Relays



HJSZ3

Rated Voltage: AC 120, 240, 400V DC 125, 250V  
Delay after power-on : 0.05s-24h,  
Delay after power-off : 0.1s-30M

077

HDR6 Thermal Overload Relays



HDR6

Frame rated current: 18, 32, 95, 185, 630A  
Setting Current: 0.1-0.15A...460-630A

070

HDZ9 Miniature Relays



HDZ9

Rated current: 3A, 5A, 10A  
Pole: 2P/3P/4P  
Maximum Rated voltage: 690V

078

# MOTOR MANAGEMENT

## HDC17K Miniature AC Contactors



HDC17K

Rated current: 6-12A  
Pole: 3P/4P

079

## HDS3 Magnetic Starters

NEW



HDS3

Frame current: 38A, 95A  
Rated current: 09-95A  
Protection level: IP54

086

## HDZ3 Contactor Relays



HDZ3

Pole: 3P

081

## BASIC Series Variable Speed Drives

NEW



BASIC

Small & Simple General-Purpose Applications

088

## HXJ9 Phase Failure and Sequence Protection Relays



HXJ9

Rated voltage : 380, 400V  
Overvoltage : 380-460V, 400-480V  
Undervoltage : 300-380V, 320-400V

083

## EXPERT Series Variable Speed Drives



EXPERT

Pump, Fan & Advanced General-Purpose Applications

088

## HDP6 Motor Circuit Breakers



HDP6

Frame rated current: 32/80A  
Setting Current : 0.1-0.16A,..., 24-32A, 40-80A

084

## SMART Solar Variable Speed Drives

NEW



SMART

Solar Pump Applications

088

## MOTOR MANAGEMENT

# HDC3 AC Contactors

Standard: IEC60947-4



### Range Presentation

HDC3 is Himel 3 series range of contactors designed for Motor Control AC3 applications up to 630A .

HDC3 contactors are applicable to AC power systems 50Hz or 60Hz with rated operating voltage up to 690V.

HDC3 contactors can be combined with HDR3s thermal overload relays to form magnetic motor starters up to 95A.

### Features

- ◆ 5 frame sizes: 25, 38, 95, 225, 630A
- ◆ Wide range of operating voltage from 70%~120% Us
- ◆ Full range of accessories for any type of application
- ◆ Can be combined with HDR3s thermal overload relay

### Online Content



HDC3

### Selection Code

| Range name | Current specification                                                                                                                                                                                                | Reversible                                                                                     | Auxiliary contact  | Coil voltage                                                                                                                                                                          | Coil frequency                      |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| HDC3       | 06                                                                                                                                                                                                                   | N                                                                                              | 11                 | M                                                                                                                                                                                     | 5                                   |
| 09-95A     | <b>06:</b> 06A<br><b>09:</b> 09A<br><b>12:</b> 12A<br><b>18:</b> 18A<br><b>25:</b> 25A<br><b>32:</b> 32A<br><b>38:</b> 38A<br><b>40:</b> 40A<br><b>50:</b> 50A<br><b>65:</b> 65A<br><b>80:</b> 80A<br><b>95:</b> 95A | <b>N:</b> reversible<br>AC Contact with mechanical interlock<br><br><b>Default:</b> AC Contact | <b>11:</b> 1NO+1NC | <b>B:</b> 24V<br><b>C:</b> 36V<br><b>E:</b> 48V<br><b>F:</b> 110V<br><b>S:</b> 127V<br><b>M:</b> 220/230V<br><b>U:</b> 240V<br><b>Q:</b> 380/400V<br><b>L:</b> 415V<br><b>X:</b> 440V | <b>5:</b> 50Hz<br><b>7:</b> 50/60Hz |
| 120-630A   | <b>120:</b> 120A<br><b>160:</b> 160A<br><b>185:</b> 185A<br><b>225:</b> 225A<br><b>265:</b> 265A<br><b>330:</b> 330A<br><b>400:</b> 400A<br><b>500:</b> 500A<br><b>630:</b> 630A                                     | <b>Default:</b> AC Contact                                                                     | <b>22:</b> 2NO+2NC | <b>F:</b> 110V<br><b>S:</b> 127V<br><b>M:</b> 220V<br><b>Q:</b> 380V<br><br><b>EHE7:</b> 48-130V<br><b>KUE7:</b> 100-250V<br><b>URE7:</b> 250-500V                                    | <b>5:</b> 50Hz<br><b>7:</b> 50/60Hz |



HDC3 AC Contactors

Standard: IEC60947-4



| Technical Parameter                     |           |            |                                                       |       |     |     |         |      |          |         |         |      |        |        |  |
|-----------------------------------------|-----------|------------|-------------------------------------------------------|-------|-----|-----|---------|------|----------|---------|---------|------|--------|--------|--|
| AC Contactors                           |           |            | HDC3                                                  |       |     |     |         |      |          |         |         |      |        |        |  |
| Contactor model                         |           |            | 06                                                    | 09    | 12  | 18  | 25      | 32   | 38       | 40      | 50      | 65   | 80     | 95     |  |
| Main circuit characteristics            |           |            |                                                       |       |     |     |         |      |          |         |         |      |        |        |  |
| Conversional thermal current(Ith)       | 380/400V  | A          | 25                                                    | 25    | 25  | 32  | 40      | 50   | 50       | 60      | 80      | 80   | 125    | 125    |  |
| Rated operating current (Ie)            |           | A          | 6                                                     | 9     | 12  | 18  | 25      | 32   | 38       | 40      | 50      | 65   | 80     | 95     |  |
| Rated operating power(Pe)<br>AC-3       | 220/230V  | kW         | 1.1                                                   | 2.2   | 3   | 4   | 5.5     | 7.5  | 11       | 11      | 15      | 18.5 | 22     | 25     |  |
|                                         | 380/400V  | kW         | 2.2                                                   | 4     | 5.5 | 7.5 | 11      | 15   | 18.5     | 18.5    | 22      | 30   | 37     | 45     |  |
|                                         | 660/690V  | kW         | 3                                                     | 5.5   | 7.5 | 10  | 15      | 18.5 | 18.5     | 30      | 33      | 37   | 45     | 45     |  |
| Mechanical endurance                    |           | 10k times  | 1200                                                  |       |     |     | 1000    |      |          | 900     |         |      | 650    |        |  |
| Electrical endurance                    | AC-3      | 10k times  | 110                                                   |       |     |     |         | 90   |          |         |         |      | 65     |        |  |
| Operation frequency                     |           | Times/hour | 1200                                                  |       |     |     |         | 600  |          |         |         |      |        |        |  |
| Number of poles                         |           |            | 3P                                                    |       |     |     |         |      |          |         |         |      |        |        |  |
| Rated insulation voltage(Ui)            |           | V          | 690                                                   |       |     |     |         |      |          |         |         |      |        |        |  |
| Maximum rated operating voltage(Ue)     |           | V          | 660/690                                               |       |     |     |         |      |          |         |         |      |        |        |  |
| Certificate                             |           |            | CB, CE, SEMKO                                         |       |     |     |         |      |          |         |         |      |        |        |  |
| Coil                                    |           |            |                                                       |       |     |     |         |      |          |         |         |      |        |        |  |
| Rated control circuit voltage(Us)       | 50Hz      | V          | 24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440 |       |     |     |         |      |          |         |         |      |        |        |  |
|                                         | 50/60Hz   | V          | 24,36, 48, 110, 127, 220/230, 240, 380/400, 415, 440  |       |     |     |         |      |          |         |         |      |        |        |  |
| Allowable control circuit voltage(Us)   | Operation | V          | AC:70%~120% (vertical installation)                   |       |     |     |         |      |          |         |         |      |        |        |  |
|                                         | Drop-out  | V          | AC: 20%-75%                                           |       |     |     |         |      |          |         |         |      |        |        |  |
| Coil power                              | Actuation | VA         | 50                                                    | 60    |     |     | 70      |      |          | 200     |         |      | 200    |        |  |
|                                         | Holdin    | VA         | 6-9.5                                                 | 6-9.5 |     |     | 6-9.5   |      |          | 15-20   |         |      | 15-20  |        |  |
| Main circuit terminal wiring capability |           |            |                                                       |       |     |     |         |      |          |         |         |      |        |        |  |
| Soft wire                               | 1 wire    | mm²        | 1...4                                                 |       |     |     | 1.5...6 |      |          | 2.5..25 |         |      | 4...50 |        |  |
|                                         | 2 wire    | mm²        | 1...4                                                 |       |     |     | 1.5...6 |      |          | 2.5..16 |         |      | 4...25 |        |  |
| Hard wire                               | 1 wire    | mm²        | 1...4                                                 |       |     |     | 1.5...6 |      | 1.5...10 |         | 2.5..25 |      |        | 4...50 |  |
|                                         | 2 wire    | mm²        | 1...4                                                 |       |     |     | 1.5...6 |      | 1.5...6  |         | 2.5..10 |      |        | 4...25 |  |
| Auxiliary contact                       |           |            |                                                       |       |     |     |         |      |          |         |         |      |        |        |  |
| Conventional thermal current(Ith)       |           | A          | 10                                                    |       |     |     |         |      |          |         |         |      |        |        |  |
| Rated operating voltage                 | AC        | V          | 380                                                   |       |     |     |         |      |          |         |         |      |        |        |  |
|                                         | DC        | V          | 220                                                   |       |     |     |         |      |          |         |         |      |        |        |  |
| Rated control capacity                  | AC-15     | VA         | 380                                                   |       |     |     |         |      |          |         |         |      |        |        |  |
|                                         | DC-13     | W          | 33                                                    |       |     |     |         |      |          |         |         |      |        |        |  |

HDC3 AC Contactors

Standard: IEC60947-4

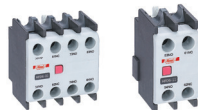


| Technical Parameters                    |           |            |                                                      |     |     |      |     |        |      |     |     |
|-----------------------------------------|-----------|------------|------------------------------------------------------|-----|-----|------|-----|--------|------|-----|-----|
| AC Contactors                           |           |            | HDC3                                                 |     |     |      |     |        |      |     |     |
| Contactor model                         |           |            | 120                                                  | 160 | 185 | 225  | 265 | 330    | 400  | 500 | 630 |
| Main circuit characteristics            |           |            |                                                      |     |     |      |     |        |      |     |     |
| Conversional thermal current(Ith)       | 380/400V  | A          | 200                                                  | 200 | 275 | 275  | 315 | 380    | 450  | 630 | 700 |
| Rated operating current (Ie)            |           | A          | 120                                                  | 160 | 185 | 225  | 265 | 330    | 400  | 500 | 630 |
| Rated operating power(Pe)<br>AC-3       | 220/230V  | kW         | 37                                                   | 45  | 55  | 63   | 75  | 90     | 132  | 160 | 200 |
|                                         | 380/400V  | kW         | 55                                                   | 75  | 90  | 110  | 132 | 160    | 220  | 250 | 355 |
|                                         | 660/690V  | kW         | 80                                                   | 100 | 110 | 110  | 165 | 220    | 300  | 350 | 450 |
| Mechanical endurance                    |           | 10k times  | 120                                                  |     | 110 |      | 90  |        |      | 80  |     |
| Electrical endurance                    | AC-3      | 10k times  | 1200                                                 |     |     |      | 600 |        |      |     |     |
| Operation frequency                     |           | Times/hour | 1000                                                 |     |     |      | 600 |        |      |     |     |
| Number of poles                         |           |            | 3P                                                   |     |     |      |     |        |      |     |     |
| Rated insulation voltage(Ui)            |           | V          | 1000                                                 |     |     |      |     |        |      |     |     |
| Maximum rated operating voltage(Ue)     |           | V          | 690                                                  |     |     |      |     |        |      |     |     |
| Certificate                             |           |            | CB, CE, SEMKO                                        |     |     |      |     |        |      |     |     |
| Coil                                    |           |            |                                                      |     |     |      |     |        |      |     |     |
| Rated control circuit voltage(Us)       | 50Hz      | V          | 110V,127V,220V,380V                                  |     |     |      |     |        |      |     |     |
|                                         | 50/60Hz   | V          | 48-130V, 100-250V, 250-500V (AC-DC universal)        |     |     |      |     |        |      |     |     |
| Allowable control circuit voltage(Us)   | Operation | V          | AC:85%-110% (vertical installation); AC-DC: 85%-110% |     |     |      |     |        |      |     |     |
|                                         | Drop-out  | V          | AC: 20%-75%; AC-DC: 10%-70%                          |     |     |      |     |        |      |     |     |
| Coil power                              | Actuation | VA         | 500                                                  |     |     | 600  |     |        | 800  |     |     |
|                                         | Holdin    | VA         | 78                                                   |     |     | 18.5 |     |        | 18.5 |     |     |
| Main circuit terminal wiring capability |           |            |                                                      |     |     |      |     |        |      |     |     |
| Soft wire                               | 1 wire    | mm²        | 10~240                                               |     |     |      |     |        |      |     |     |
|                                         | 2 wire    | mm²        | 10~75                                                |     |     |      |     |        |      |     |     |
| Hard wire                               | 1 wire    | mm²        | 10-150                                               |     |     |      |     | 50-240 |      |     |     |
|                                         | 2 wire    | mm²        | 10-75                                                |     |     |      |     | 50-240 |      |     |     |
| Auxiliary contact                       |           |            |                                                      |     |     |      |     |        |      |     |     |
| Conventional thermal current(Ith)       |           | A          | 10                                                   |     |     |      |     |        |      |     |     |
| Rated operating voltage                 | AC        | V          | 380                                                  |     |     |      |     |        |      |     |     |
|                                         | DC        | V          | 220                                                  |     |     |      |     |        |      |     |     |
| Rated control capacity                  | AC-15     | VA         | 380                                                  |     |     |      |     |        |      |     |     |
|                                         | DC-13     | W          | 33                                                   |     |     |      |     |        |      |     |     |

HDC3 AC Contactors

Standard: IEC60947-4

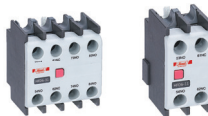


| Technical Parameter                    |  |                                                                                                                                                                                                          |    |     |    |     |                                                                |    |    |                                                                                               |      |    |    |    |    |
|----------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|----|-----|----------------------------------------------------------------|----|----|-----------------------------------------------------------------------------------------------|------|----|----|----|----|
| AC Contactors                          |  | HDC3                                                                                                                                                                                                     |    |     |    |     |                                                                |    |    |                                                                                               |      |    |    |    |    |
| Contactor model                        |  |                                                                                                                                                                                                          | 06 | 09  | 12 | 18  | 25                                                             | 32 | 38 | 40                                                                                            | 50   | 65 | 80 | 95 |    |
| Main circuit characteristics           |  |                                                                                                                                                                                                          |    |     |    |     |                                                                |    |    |                                                                                               |      |    |    |    |    |
| Rated operating current (Ie)           |  | 380/400V                                                                                                                                                                                                 | A  | 6   | 9  | 12  | 18                                                             | 25 | 32 | 38                                                                                            | 40   | 50 | 65 | 80 | 95 |
| Rated operating power (Pe) AC-3        |  |                                                                                                                                                                                                          | kW | 2.2 | 4  | 5.5 | 7.5                                                            | 11 | 15 | 18.5                                                                                          | 18.5 | 22 | 30 | 37 | 45 |
| Accessorys                             |  |                                                                                                                                                                                                          |    |     |    |     |                                                                |    |    |                                                                                               |      |    |    |    |    |
| Top auxiliary contact                  |  | <div></div> <div>2 Poles: HF4-11, HF4-20 , HF4-02<br/>4 Poles: HF4-22, HF4-31 , HF4-13 , HF4-40 , HF4-40</div>          |    |     |    |     |                                                                |    |    |                                                                                               |      |    |    |    |    |
| Side auxiliary contact                 |  | <div></div> <div>2 Poles: HFC6-11 , HFC6-20 , HFC6-02</div>                                                             |    |     |    |     |                                                                |    |    |                                                                                               |      |    |    |    |    |
| Air delayed head                       |  | <div></div> <div>Making time delay: HFT6-20 , HFT-22 , HFT-24<br/>Breaking time delay: HFT6-30 , HFT-32 , HFT-34</div> |    |     |    |     |                                                                |    |    |                                                                                               |      |    |    |    |    |
| Mechanical interlock                   |  | <div></div> <div>9-63A horizontal installation : HRF6-32<br/>40-95A horizontal installation : HRF6-95</div>           |    |     |    |     |                                                                |    |    |                                                                                               |      |    |    |    |    |
| Spear coil                             |  | <div></div> <div>HX3 + Contact AF + Ue + Hz<br/>EXP : HX395M7 , HDC3 Coil 80-95A 220/230V 50/60Hz</div>               |    |     |    |     |                                                                |    |    |                                                                                               |      |    |    |    |    |
| Thermal relay                          |  |                                                                                                                                                                                                          |    |     |    |     |                                                                |    |    |                                                                                               |      |    |    |    |    |
| HDR3s thermal relay 6-95 A             |  | <div></div> <div>HDR3s-25<br/><br/>P16 : 0.1-0.16A<br/>P25 : 0.16-0.25A<br/>.....<br/>25 : 17-25A</div>               |    |     |    |     | <div><div>HDR3s-38<br/>32 : 23-32A<br/>38 : 30-40A</div></div> |    |    | <div><div>HDR3s-95<br/><br/>40 : 30-40A<br/>50 : 37-50A<br/>.....<br/>93 : 80-93A</div></div> |      |    |    |    |    |
| Allowable control circuit voltage (Us) |  | <div></div> <div>HJRS1D25J</div>                                                                                      |    |     |    |     | <div><div>HJRS1D38J</div></div>                                |    |    | <div><div>HJRS1D93J</div></div>                                                               |      |    |    |    |    |

HDC3 AC Contactors

Standard: IEC60947-4



| Technical Parameter             |  |                                                                                       |     |                                                                                                                           |     |     |     |                                                                         |     |     |     |                                                                                 |  |
|---------------------------------|--|---------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-------------------------------------------------------------------------|-----|-----|-----|---------------------------------------------------------------------------------|--|
| AC Contactors                   |  | HDC3                                                                                  |     |                                                                                                                           |     |     |     |                                                                         |     |     |     |                                                                                 |  |
| Contactor model HDC3            |  |                                                                                       | 120 | 160                                                                                                                       | 185 | 225 | 265 | 330                                                                     | 400 | 500 | 630 |                                                                                 |  |
| Main circuit characteristics    |  |                                                                                       |     |                                                                                                                           |     |     |     |                                                                         |     |     |     |                                                                                 |  |
| Rated operating current (Ie)    |  | 380/400V                                                                              | kW  | 18                                                                                                                        | 25  | 32  | 38  | 40                                                                      | 50  | 65  | 80  | 95                                                                              |  |
| Rated operating power (Pe) AC-3 |  |                                                                                       |     | 55                                                                                                                        | 75  | 90  | 110 | 132                                                                     | 160 | 220 | 250 | 355                                                                             |  |
| Accessories                     |  |                                                                                       |     |                                                                                                                           |     |     |     |                                                                         |     |     |     |                                                                                 |  |
| Top auxiliary contact           |  |    |     | 2 Poles: HF4-11, HF4-20 , HF4-02<br>4 Poles: HF4-22, HF4-31 , HF4-13 , HF4-40 , HF4-40                                    |     |     |     |                                                                         |     |     |     |                                                                                 |  |
| Side auxiliary contact          |  |    |     | 2 Poles: HFC6s-11                                                                                                         |     |     |     |                                                                         |     |     |     |                                                                                 |  |
| Air delayed head                |  |   |     | Making time delay: HFT6-20 , HFT-22 , HFT-24<br>Breaking time delay: HFT6-30 , HFT-32 , HFT-34                            |     |     |     |                                                                         |     |     |     |                                                                                 |  |
| Mechanical interlock            |  | Consult us, available in 2021                                                         |     |                                                                                                                           |     |     |     |                                                                         |     |     |     |                                                                                 |  |
| Spare coil                      |  |  |     | HX3 + Contact AF + Ue + Hz<br>EXP : HX3120M , HDC3 Coil 120A 220 50Hz<br>HX3160KUE7, HDC3 Coil 160A AC/DC100-250V 50/60Hz |     |     |     |                                                                         |     |     |     |                                                                                 |  |
| Thermal relay                   |  |                                                                                       |     |                                                                                                                           |     |     |     |                                                                         |     |     |     |                                                                                 |  |
| HDR3s thermal relay 120-630 A   |  |  |     |                                                                                                                           |     |     |     | HDR3s-185<br><br>95 : 75-95A<br>135: 105-135A<br>.....<br>185: 150-185A |     |     |     | HDR3s-630<br><br>200F : 145-200A<br>250F : 180-250A<br>.....<br>630F : 460-630A |  |

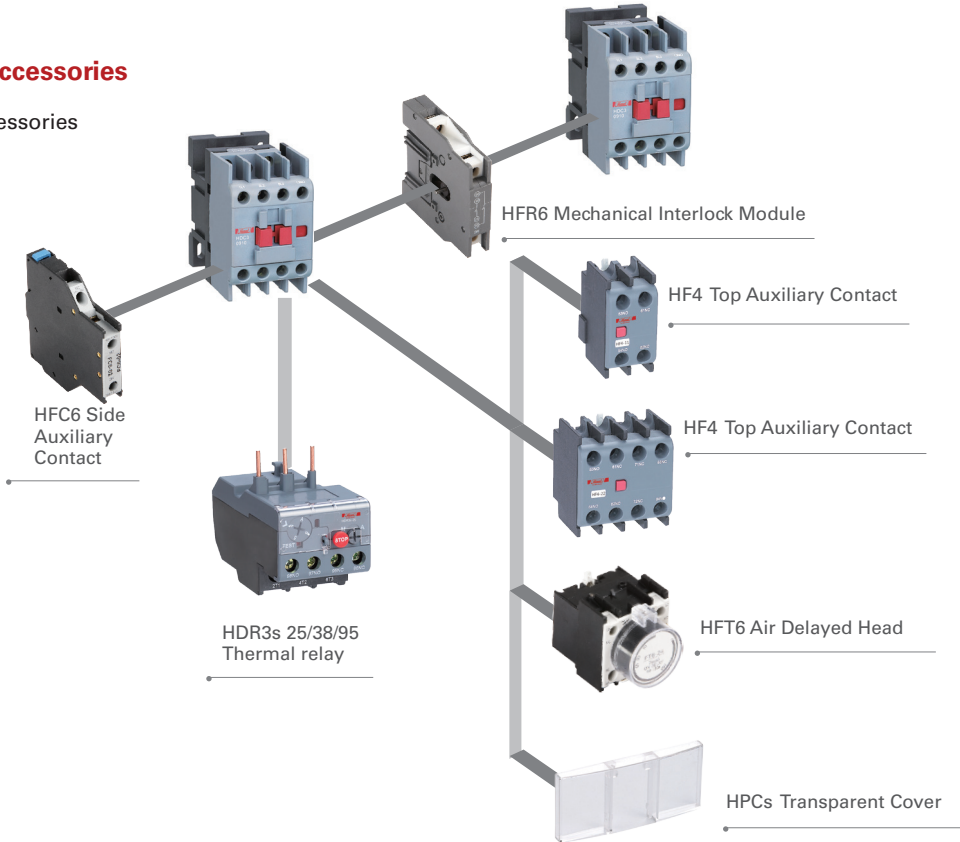
HDC3 AC Contactors

Standard: IEC60947-4

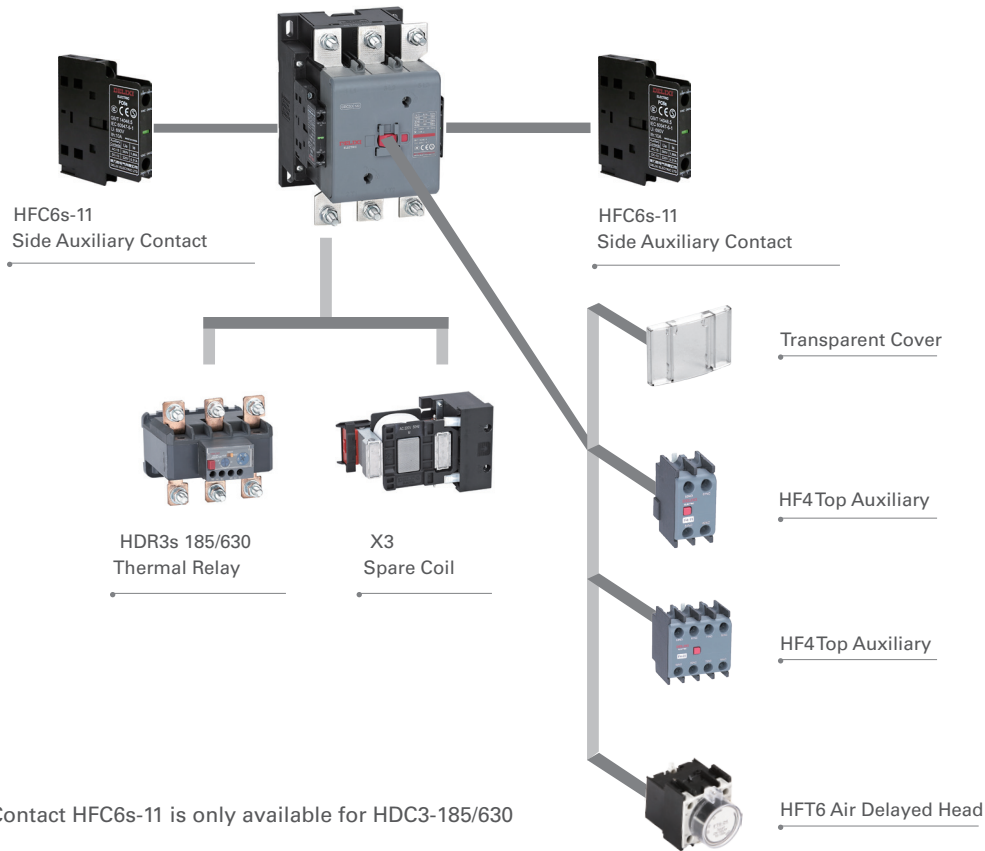


Overview of Accessories

HDC3 09-95A Accessories



HDC3 120-630A Accessories



Note:Side Auxiliary Contact HFC6s-11 is only available for HDC3-185/630

HDC3 AC Contactors

Standard: IEC60947-4



HDC3 6-95A & 120-630A Contactor Accessories

Transparent cover

| Contactor Type  | Reference |
|-----------------|-----------|
| HDC3-6~38A/HDZ3 | HPCs38    |
| HDC3-40~65A     | HPCs65    |
| HDC3-80~95A     | HPCs95    |

Auxiliary contact

| Installation position | Pole | Auxiliary Contact NO | NC | Contact point layout | Reference |
|-----------------------|------|----------------------|----|----------------------|-----------|
| Top                   | 2    | 0                    | 2  |                      | HF4 02    |
|                       |      | 1                    | 1  |                      | HF4 11    |
|                       |      | 2                    | 0  |                      | HF4 20    |
|                       | 4    | 0                    | 4  |                      | HF4 04    |
|                       |      | 1                    | 3  |                      | HF4 13    |
|                       |      | 2                    | 2  |                      | HF4 22    |
|                       |      | 3                    | 1  |                      | HF4 31    |
|                       |      | 4                    | 0  |                      | HF4 40    |
|                       | 2    | 0                    | 2  |                      | HFC6 02   |
|                       |      | 1                    | 1  |                      | HFC6 11   |
|                       |      | 2                    | 0  |                      | HFC6 20   |
|                       |      |                      |    |                      |           |

Air Delayed Head

| Installation Position | Delay type          | Wiring diagram | Delay range | Reference |
|-----------------------|---------------------|----------------|-------------|-----------|
| Top                   | Making time-delay   |                | 0.1-3s      | HFT6 20   |
|                       |                     |                | 0.1-30s     | HFT6 22   |
|                       |                     |                | 10-180s     | HFT6 24   |
|                       | Breaking time-delay |                | 0.1-3s      | HFT6 30   |
|                       |                     |                | 0.1-30s     | HFT6 32   |
|                       |                     |                | 10-180s     | HFT6 34   |

Mechanical Interlock

| Horizontal installation   |              |           |
|---------------------------|--------------|-----------|
| Interlock method          | Contact type | Reference |
| Mechanical interlock      | HDC3-9~32    | HFR6 32 H |
| with electrical interlock | HDC3-40~95   | HFR6 95 H |



HDR3s Thermal Overload Relays

Standard: IEC60947-4



Range Presentation

HDR3s is Himel 3 series range of thermal overload relays designed to provide protection against overload, phase loss and current imbalance.

HDR3s thermal overload relays can be combined with HDC3 contactors into motor starter.

Features

- ◆ Frame Rating Current: 25, 38, 93 , 185 , 630A
- ◆ Setting Current: 0.1-630 A

Online Content



HDR3s

Selection Code

| Range name   | Frame size | Setting currents                |
|--------------|------------|---------------------------------|
| <b>HDR3s</b> | <b>25</b>  | <b>P16</b>                      |
| HDR3s        | 25: 25A    | P16: 0.1- 0.16A<br>25: 17 - 25A |
|              | 38: 38A    | 32: 25 - 32A<br>40: 32 - 38A    |
|              | 95: 95A    | 10: 7.0- 10A<br>93: 80 - 93A    |
|              | 185: 185A  | 65: 48-65A<br>185: 150-185A     |
|              | 630: 630A  | 200: 145-200A<br>630: 460-630A  |

| Technical Parameters                |                  |           |           |       |      |
|-------------------------------------|------------------|-----------|-----------|-------|------|
| Thermal overload relay              | HDR3s            |           |           |       |      |
| Main technical parameters           |                  |           |           |       |      |
| Temperature compensation            | -5°C~+40°C       |           |           |       |      |
| HDR3s Thermal Relay                 | 25               | 38        | 95        | 185   | 630  |
| Trip level                          | 10A              |           | 10        |       |      |
| Rated insulation voltage(Ui) V      | 660V             |           |           | 690V  |      |
| Base                                | HJRS1D25J        | HJRS1D36J | HJRS1D93J | -     | -    |
| Certificate                         | CB, CE, SEMKO    |           |           |       |      |
| Product features                    |                  |           |           |       |      |
| Overload protection                 | Yes              |           |           |       |      |
| Phase-failure protection            | Yes              |           |           |       |      |
| Manual reset                        | Yes              |           |           |       |      |
| Automatic reset                     | Yes              |           |           |       |      |
| Stop button                         | Yes              |           |           |       |      |
| Test button                         | Yes              |           |           |       |      |
| Trip indication                     | Yes              |           |           |       |      |
| Tolerance on slope in any direction | ±5°              |           |           |       |      |
| Auxiliary circuit 1NO+1NC           |                  |           |           |       |      |
| Utilization category                | AC-15            |           |           | DC-13 |      |
| Rated frequency Hz                  | 50/60            |           | 50/60     |       |      |
| Rated insulation voltage (Ui) V     | 500              |           | 500       |       | 500  |
| Rated operating voltage (Ue) V      | 230              |           | 400       |       | 230  |
| Rated operating current Ie A        | 1.57             |           | 0.90      |       | 0.14 |
| Conventional thermal current Ith A  | 5                |           | 5         |       | 5    |
| Wiring                              | 1mm <sup>2</sup> |           |           |       |      |

HDC6 AC Contactors

Standard: IEC60947-4



Range Presentation

HDC6 is Himel 6 series range of contactors designed for Motor Control AC3 applications up to 630A 690V.

HDC6 contactors are applicable to AC power systems 50Hz or 60Hz with rated operating voltage up to 690V.

HDC6 contactors can be combined with HDR6 thermal overload relays to provide overload protection

Features

- ◆ Current specifications: 6A-95A, 115A-630A
- ◆ Pole: 3-pole
- ◆ Coil voltage: 24-440V
- ◆ Coil frequency: 50Hz, 50/60Hz

Online Content



HDC6

Selection Code

| Range name  | Current specification         | Auxiliary contact          | Coil voltage                                                                                                    | Coil frequency              |
|-------------|-------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>HDC6</b> | <b>09</b>                     | <b>11</b>                  | <b>M</b>                                                                                                        | <b>7</b>                    |
| HDC6        | 09: 09A<br>.....<br>630: 630A | 00: 0NO+0NC<br>11: 1NO+1NC | B: 24V<br>C: 36V<br>E: 48V<br>F: 110V<br>S: 127V<br>M: 220/230V<br>U: 240V<br>Q: 380/400V<br>L: 415V<br>X: 440V | Default: 50Hz<br>7: 50/60Hz |

HDC6 AC Contactors

Standard: IEC60947-4



| Technical Parameters                     |                                           |                                              |         |         |         |         |         |         |         |         |         |
|------------------------------------------|-------------------------------------------|----------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| AC Contactors                            |                                           | HDC6-09                                      | HDC6-12 | HDC6-18 | HDC6-25 | HDC6-32 | HDC6-40 | HDC6-50 | HDC6-65 | HDC6-80 | HDC6-95 |
| Main circuit characteristics             |                                           |                                              |         |         |         |         |         |         |         |         |         |
| Rated operating current<br>(AC380V/400V) | le, AC-3                                  | 9A                                           | 12A     | 18A     | 25A     | 32A     | 40A     | 50A     | 65A     | 80A     | 95A     |
|                                          | le, AC-4                                  | 3.5A                                         | 8.9A    | 12A     | 18A     | 21A     | 34A     | 39A     | 42A     | 49A     | 55A     |
|                                          | le, AC-1                                  | 20A                                          | 20A     | 32A     | 40A     | 50A     | 60A     | 80A     | 80A     | 125A    | 125A    |
| Rated insulation voltage (Ui)            |                                           | 690V                                         |         |         |         |         |         |         |         |         |         |
| Maximum rated operating voltage (Ue)     |                                           | 690V                                         |         |         |         |         |         |         |         |         |         |
| Number of poles                          |                                           | 3                                            |         |         |         |         |         |         |         |         |         |
| Certificate                              |                                           | CE, SEMKO                                    |         |         |         |         |         |         |         |         |         |
| Rated operating power class AC-3         | 220/240V                                  | 2.2kW                                        | 3kW     | 4kW     | 5.5kW   | 7.5kW   | 11kW    | 15kW    | 18.5kW  | 22kW    | 25kW    |
|                                          | 380/400V                                  | 4kW                                          | 5.5kW   | 7.5kW   | 11kW    | 15kW    | 18.5kW  | 22kW    | 30kW    | 37kW    | 45kW    |
|                                          | 415/440V                                  | 4kW                                          | 5.5kW   | 9kW     | 11kW    | 15kW    | 22kW    | 25kW    | 37kW    | 45kW    | 45kW    |
|                                          | 660/690V                                  | 5.5kW                                        | 7.5kW   | 10kW    | 15kW    | 18.5kW  | 30kW    | 33kW    | 37kW    | 45kW    | 45kW    |
| AC-3                                     | Electric durabilities (10 thousand times) | 100                                          | 100     | 100     | 100     | 80      | 80      | 80      | 80      | 60      | 60      |
|                                          | Operating Rate (time/h)                   | 1200                                         | 1200    | 1200    | 1200    | 600     | 600     | 600     | 600     | 600     | 600     |
| Mechanical durabilities                  | (10 thousand times)                       | 1000                                         | 1000    | 1000    | 1000    | 800     | 800     | 800     | 800     | 800     | 800     |
| Coil                                     |                                           |                                              |         |         |         |         |         |         |         |         |         |
| Rated control circuit voltage (Us)       | 50/60Hz                                   | 24V, 48V, 110V, 220V, 230V, 240V, 380V, 400V |         |         |         |         |         |         |         |         |         |
| Allowable control circuit voltage (Us)   | Operation<br>Drop-out                     | 85%~110% Us<br>20%~75% Us                    |         |         |         |         |         |         |         |         |         |
| Coil power                               | Actuation VA                              | 70                                           |         |         |         | 110     |         |         | 200     |         |         |
|                                          | Holding VA                                | 8                                            |         |         |         | 11      |         |         | 20      |         |         |
|                                          | Heat dissipation W                        | 1.8~2.7                                      |         |         |         | 3~4     |         |         | 6~10    |         |         |
| Terminal wiring ability                  |                                           |                                              |         |         |         |         |         |         |         |         |         |
| Soft wire without terminal block         | 1 pc (wire section mm <sup>2</sup> )      | 1~4                                          | 1~4     | 1.5~6   | 1.5~10  | 2.5~10  | 2.5~25  | 2.5~25  | 2.5~25  | 4~50    | 4~50    |
|                                          | 2 pcs (wire section mm <sup>2</sup> )     | 1~4                                          | 1~4     | 1.5~6   | 1.5~6   | 2.5~10  | 2.5~16  | 2.5~16  | 2.5~16  | 4~25    | 4~25    |
| Soft wire with terminal block            | 1 pc (wire section mm <sup>2</sup> )      | 1~4                                          | 1~4     | 1~6     | 1~6     | 1~10    | 2.5~25  | 2.5~25  | 2.5~25  | 4~50    | 4~50    |
|                                          | 2 pcs (wire section mm <sup>2</sup> )     | 1~2.5                                        | 1~2.5   | 1~4     | 1~4     | 1.5~6   | 2.5~10  | 2.5~10  | 2.5~10  | 4~16    | 4~16    |
| Hard wire without terminal block         | 1 pc (wire section mm <sup>2</sup> )      | 1~4                                          | 1~4     | 1.5~6   | 1.5~6   | 1.5~10  | 2.5~25  | 2.5~25  | 2.5~25  | 4~50    | 4~50    |
|                                          | 2 pcs (wire section mm <sup>2</sup> )     | 1~4                                          | 1~4     | 1.5~6   | 1.5~6   | 2.5~10  | 2.5~16  | 2.5~16  | 2.5~16  | 4~25    | 4~25    |
| Auxiliary contact                        |                                           |                                              |         |         |         |         |         |         |         |         |         |
| Rated thermal turrent (Ith)              | A                                         | 10                                           |         |         |         |         |         |         |         |         |         |
| Rated operating voltage (Ue)             | AC V                                      | 400                                          |         |         |         |         |         |         |         |         |         |
|                                          | DC V                                      | 220                                          |         |         |         |         |         |         |         |         |         |
| Rated control capacity                   | AC-15 VA                                  | 360                                          |         |         |         |         |         |         |         |         |         |

HDC6 AC Contactors

Standard: IEC60947-4



| Technical Parameters                     |                                              |                                                                                                    |          |          |          |          |          |          |          |          |
|------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| AC Contactors                            |                                              | HDC6-115                                                                                           | HDC6-150 | HDC6-185 | HDC6-225 | HDC6-265 | HDC6-330 | HDC6-400 | HDC6-500 | HDC6-630 |
| Main circuit characteristics             |                                              |                                                                                                    |          |          |          |          |          |          |          |          |
| Rated operating current<br>(AC380V/400V) | Ie, AC-3                                     | 115A                                                                                               | 150A     | 185A     | 225A     | 265A     | 330A     | 400A     | 500A     | 630A     |
|                                          | Ie, AC-4                                     | 52A                                                                                                | 60A      | 79A      | 85A      | 105A     | 117A     | 138A     | 147A     | 188A     |
|                                          | Ie, AC-1                                     | 200A                                                                                               | 250A     | 275A     | 315A     | 350A     | 400A     | 500A     | 630A     | 800A     |
| Rated insulation voltage (Ui)            |                                              | 1000V                                                                                              |          |          |          |          |          |          |          |          |
| Rated operating voltage (Ue)             |                                              | 690V                                                                                               |          |          |          |          |          |          |          |          |
| Number of pole                           |                                              | 3                                                                                                  |          |          |          |          |          |          |          |          |
| Certificate                              |                                              | CE, SEMKO                                                                                          |          |          |          |          |          |          |          |          |
| Rated operating power<br>class AC-3      | 220/240V                                     | 30kW                                                                                               | 40kW     | 55kW     | 63kW     | 75kW     | 100kW    | 110kW    | 147kW    | 200kW    |
|                                          | 380/400V                                     | 55kW                                                                                               | 75kW     | 90kW     | 110kW    | 132kW    | 160kW    | 200kW    | 250kW    | 335kW    |
|                                          | 415/440V                                     | 59kW                                                                                               | 80kW     | 100kW    | 110kW    | 140kW    | 180kW    | 220kW    | 280kW    | 375kW    |
|                                          | 660/690V                                     | 80kW                                                                                               | 100kW    | 110kW    | 129kW    | 160kW    | 220kW    | 280kW    | 335kW    | 450kW    |
| AC-3                                     | Electric durabilities<br>(10 thousand times) | 120                                                                                                | 120      | 100      | 100      | 80       | 80       | 80       | 80       | 80       |
|                                          | Operating Rate<br>(time/h)                   | 600                                                                                                | 600      | 600      | 600      | 600      | 600      | 300      | 300      | 300      |
| Mechanical durabilities                  | (10 thousand times)                          | 1000                                                                                               | 1000     | 600      | 600      | 600      | 600      | 600      | 600      | 600      |
| Coil                                     |                                              |                                                                                                    |          |          |          |          |          |          |          |          |
| Rated control circuit voltage (Us)       | 50Hz                                         | 110V, 127V, 220V-230V, 240V, 380V-400V, 440V                                                       |          |          |          |          |          |          |          |          |
|                                          | 50/60Hz                                      | 110V, 220-230V, 240V, 380V-400V (115-225A), 110V, 127V, 220V-230V, 240V, 380V-400V, 440V(265-630A) |          |          |          |          |          |          |          |          |
| Allowable control circuit voltage (Us)   | Operation                                    | 85%~110% Us                                                                                        |          |          |          |          |          |          |          |          |
|                                          | Drop-out                                     | 20%~75% Us                                                                                         |          |          |          |          |          |          |          |          |
| Coil power                               | Actuation VA                                 | 550                                                                                                | 800      |          | 1200     |          | 1200     | 1250     | 1650     |          |
|                                          | Holding VA                                   | 45                                                                                                 | 55       |          | 13       |          | 20       | 24       | 22       |          |
|                                          | Heat dissipation W                           | 16                                                                                                 | 24       |          | 12       |          | 14       | 18       | 20       |          |
| Terminal wiring ability                  |                                              |                                                                                                    |          |          |          |          |          |          |          |          |
| Fixed wire without terminal block        | 1 pc (wire section mm²)                      | 95                                                                                                 | 120      | 150      | 185      | 240      | 240      | -        | -        | -        |
|                                          | 2 pcs (wire section mm²)                     | -                                                                                                  | -        | -        | -        | -        | -        | 150      | 240      | -        |
| Copper bar                               | 2 pcs (size mm²)                             | 20*3                                                                                               | 25*3     | 25*3     | 32*4     | 32*4     | 30*5     | 30*5     | 40*5     | 60*5     |
| Auxiliary contact                        |                                              |                                                                                                    |          |          |          |          |          |          |          |          |
| Rated thermal current (Ith)              | A                                            | 10                                                                                                 |          |          |          |          |          |          |          |          |
| Rated operating voltage (Ue)             | ACV                                          | 400                                                                                                |          |          |          |          |          |          |          |          |
|                                          | DCV                                          | 220                                                                                                |          |          |          |          |          |          |          |          |
| Rated control capacity                   | AC-15 VA                                     | 360                                                                                                |          |          |          |          |          |          |          |          |

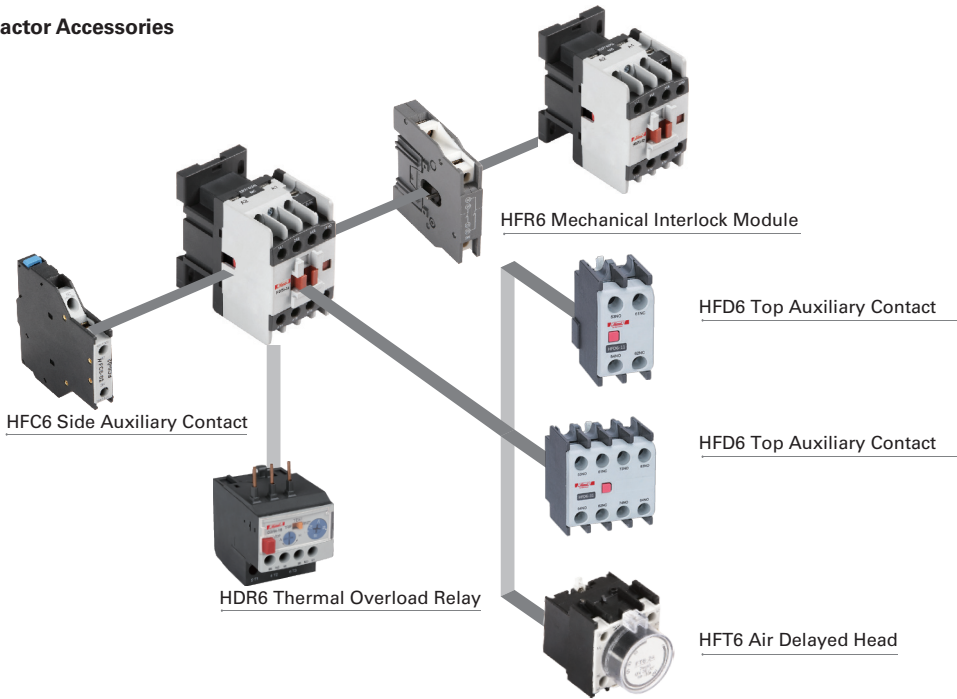
HDC6 AC Contactors

Standard: IEC60947-4

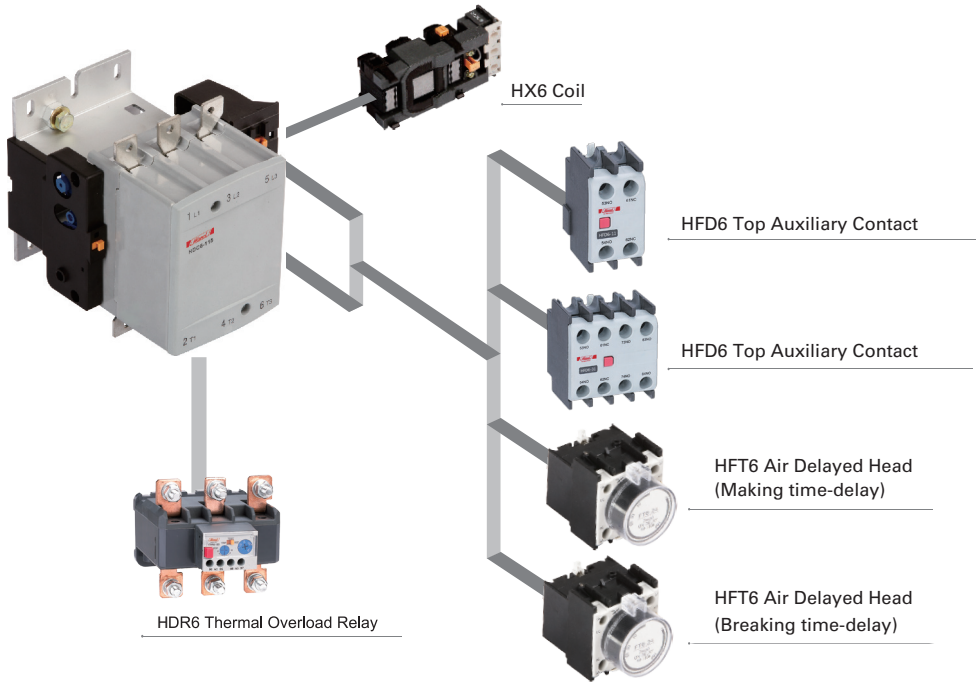


Overview of Accessories

HDC6-9~95A Contactor Accessories



HDC6-115~630A Contactor Accessories



HDR6 Thermal Overload Relays

Standard: IEC60947-4



Range Presentation

HDR6 is Himel 6 series range of thermal overload relays designed to provide protection against overload, phase loss and current imbalance.

HDR6 thermal overload relays can be combined with HDC6 contactors into motor starter.

Features

- ◆ Frame rating current: 18, 32, 95, 185,630A
- ◆ Setting current: 0.1-0.15A...460-630A

Online Content



HDR6

Selection Code

| Range name  | Frame size | Setting currents                        | Installation type                            |
|-------------|------------|-----------------------------------------|----------------------------------------------|
| <b>HDR6</b> | <b>18</b>  | <b>18</b>                               |                                              |
| HDR6        | 18: 18A    | P15: 0.1-0.15A<br>.....<br>18: 14-18A   | Default: None<br>F: Independent installation |
|             | 32: 32A    | 9: 6.3-9A<br>.....<br>32: 23-32A        |                                              |
|             | 95: 95A    | 25: 18- 25A<br>.....<br>95: 80-95A      |                                              |
|             | 185: 185A  | 65: 48-65A<br>.....<br>185: 150-185A    |                                              |
|             | 630: 630A  | 200: 145-200A<br>.....<br>630: 460-630A |                                              |



HDR6 Thermal Overload Relays

Standard: IEC60947-4



Order Information

| Setting current | Matched fuse |     | Matched contactor | Reference   |
|-----------------|--------------|-----|-------------------|-------------|
|                 | aM           | gG  |                   |             |
| 0.10-0.15A      | 0.25         | 2   | HDC6-09~18        | HDR6 18 P15 |
| 0.12-0.18A      | 0.25         | 2   | HDC6-09~18        | HDR6 18 P18 |
| 0.18-0.25A      | 0.5          | 2   | HDC6-09~18        | HDR6 18 P25 |
| 0.25-0.36A      | 1            | 2   | HDC6-09~18        | HDR6 18 P36 |
| 0.35-0.50A      | 1            | 2   | HDC6-09~18        | HDR6 18 P5  |
| 0.50-0.70A      | 1            | 2   | HDC6-09~18        | HDR6 18 P7  |
| 0.63-0.90A      | 2            | 4   | HDC6-09~18        | HDR6 18 P9  |
| 0.90-1.20A      | 2            | 4   | HDC6-09~18        | HDR6 18 1P2 |
| 1.20-1.80A      | 4            | 6   | HDC6-09~18        | HDR6 18 1P8 |
| 1.80-2.50A      | 4            | 6   | HDC6-09~18        | HDR6 18 2P5 |
| 2.50-3.60A      | 6            | 10  | HDC6-09~18        | HDR6 18 3P6 |
| 3.50-4.80A      | 8            | 16  | HDC6-09~18        | HDR6 18 4P8 |
| 4.50-6.30A      | 8            | 16  | HDC6-09~18        | HDR6 18 6P3 |
| 5-7A            | 12           | 20  | HDC6-09~18        | HDR6 18 7   |
| 6.3-9A          | 12           | 20  | HDC6-09~18        | HDR6 18 9   |
| 9-12A           | 16           | 25  | HDC6-09~18        | HDR6 18 12  |
| 11-15A          | 20           | 35  | HDC6-09~18        | HDR6 18 15  |
| 14-18A          | 20           | 35  | HDC6-09~18        | HDR6 18 18  |
| 6.3-9A          | 12           | 20  | HDC6-25~32        | HDR6 32 9   |
| 9-12A           | 16           | 25  | HDC6-25~32        | HDR6 32 12  |
| 12-18A          | 20           | 35  | HDC6-25~32        | HDR6 32 18  |
| 18-25A          | 25           | 50  | HDC6-25~32        | HDR6 32 25  |
| 23-32A          | 40           | 63  | HDC6-25~32        | HDR6 32 32  |
| 18-25A          | 25           | 50  | HDC6-40~95        | HDR6 95 25  |
| 23-32A          | 40           | 63  | HDC6-40~95        | HDR6 95 32  |
| 30-40A          | 40           | 100 | HDC6-40~95        | HDR6 95 40  |
| 37-50A          | 63           | 100 | HDC6-40~95        | HDR6 95 50  |
| 48-65A          | 63           | 100 | HDC6-40~95        | HDR6 95 65  |
| 55-70A          | 80           | 125 | HDC6-40~95        | HDR6 95 70  |
| 63-80A          | 80           | 125 | HDC6-40~95        | HDR6 95 80  |
| 80-95A          | 100          | 160 | HDC6-40~95        | HDR6 95 95  |



Base

| Adaptive thermal relay type | Reference |
|-----------------------------|-----------|
| HDR6-18                     | HDR6 18 J |
| HDR6-32                     | HDR6 32 J |
| HDR6-95                     | HDR6 95 J |

HDR6 Thermal Overload Relays

Standard: IEC60947-4



Order Information

| Setting current | Matched relay |     | Matched contactor | Reference     |
|-----------------|---------------|-----|-------------------|---------------|
|                 | aM            | gG  |                   |               |
| 48-65           | 80            | 100 | HDC6-115~185      | HDR6 185 65   |
| 55-70           | 80            | 100 | HDC6-115~185      | HDR6 185 70   |
| 63-80           | 80            | 100 | HDC6-115~185      | HDR6 185 80   |
| 75-95           | 100           | 125 | HDC6-115~185      | HDR6 185 95   |
| 90-115          | 125           | 200 | HDC6-115~185      | HDR6 185 115  |
| 105-135         | 160           | 200 | HDC6-115~185      | HDR6 185 135  |
| 120-150         | 160           | 200 | HDC6-115~185      | HDR6 185 150  |
| 130-160         | 160           | 250 | HDC6-115~185      | HDR6 185 160  |
| 150-185         | 200           | 250 | HDC6-115~185      | HDR6 185 185  |
| 145-200         | 200           | 400 | HDC6-225~630      | HDR6 630 200F |
| 180-250         | 250           | 400 | HDC6-225~630      | HDR6 630 250F |
| 230-320         | 355           | 500 | HDC6-225~630      | HDR6 630 320F |
| 290-400         | 400           | 630 | HDC6-225~630      | HDR6 630 400F |
| 350-480         | 500           | 800 | HDC6-225~630      | HDR6 630 480F |
| 460-630         | 630           | 800 | HDC6-225~630      | HDR6 630 630F |



| Technical Parameters                   |                 |                                     |
|----------------------------------------|-----------------|-------------------------------------|
| Thermal Overload Relays                |                 | HDR6                                |
| Temperature compensation               |                 | -10°C ~ +55°C                       |
| Trip class                             | 10A             | HDR6-18, 32, 630/F                  |
|                                        | 10              | HDR6-95, 185                        |
|                                        | HDR6-18         | 0.1-18A                             |
|                                        | HDR6-32         | 6.3-32A                             |
| Frame current                          | HDR6-95         | 18-95A                              |
|                                        | HDR6-185        | 48-185A                             |
|                                        | HDR6-630/F      | 145-630A                            |
| Rated impulse withstand voltage (Uimp) |                 | 6kV                                 |
| Protection function                    |                 | Over-load protection                |
|                                        |                 | Phase failure protection            |
|                                        |                 | Manual and automatic reset          |
|                                        |                 | Tripping indication                 |
|                                        |                 | Stop button                         |
|                                        |                 | Test button                         |
|                                        |                 | Assembly / Independent: HDR6-18~185 |
|                                        |                 | Independent: HDR6-630/F             |
| Certificate                            |                 | CB, CE, SEMKO                       |
| Auxiliary circuit                      |                 |                                     |
| Rated thermal current                  |                 | 6A                                  |
| Contact type                           |                 | 1NO+1NC                             |
| Rated insulating voltage               |                 | 690V                                |
| Control capacity                       | AC-15 220V/240V | 1.64A                               |
|                                        | AC-15 380V/415V | 0.95A                               |
|                                        | DC-13 220V/240V | 0.23A                               |
| Wiring ability                         | Wire section    | 1mm <sup>2</sup>                    |

HJX2 4P AC Contactors

Standard: IEC60947-4



Range Presentation

HJX2 & HJX2F 4P AC contacto is Himel HJX series range of contactors designed for Motor Control AC3 applications up to 800A 690V.

HJX2 & HJX2F contactors are applicable to AC power systems 50Hz or 60Hz with rated operating voltage up to 690V.

HJX2 & HJX2F contactors can be combined with HDR3s thermal overload relays to provide overlaod protection.

Features

- ◆ Current specifications: 9-800A
- ◆ Pole: 4-pole
- ◆ Coil voltage: 24-440V
- ◆ Coil frequency: 50/60Hz

Online Content



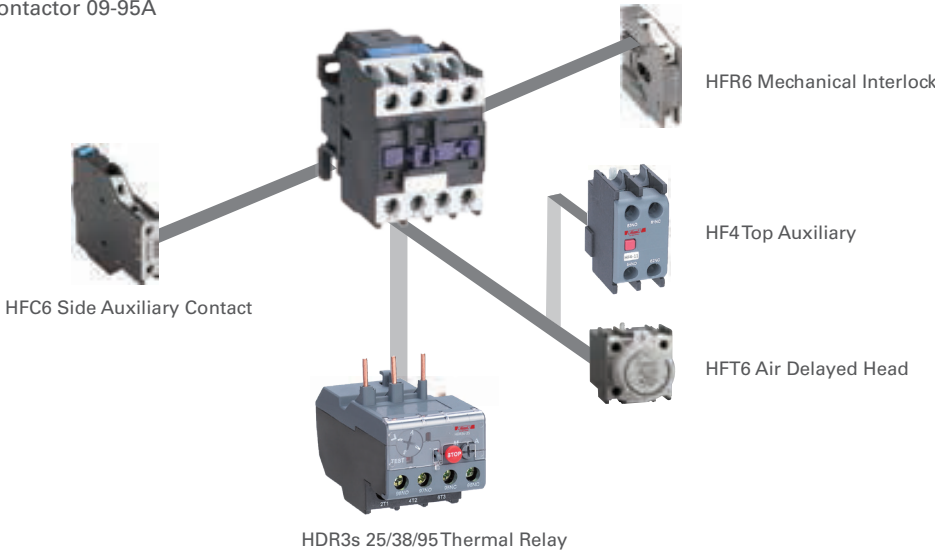
HJX2

Selection Code

| Range name | Current specification       | Main contact               | Coil voltage                                                                                                    | Coil frequency |
|------------|-----------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------|----------------|
| HJX2       | 09                          | 4                          | M                                                                                                               | 7              |
| HJX2       | 09: 09A<br>.....<br>95: 95A | 04: 4NO+0NC<br>08: 2NO+2NC | B: 24V<br>C: 36V<br>E: 48V<br>F: 110V<br>S: 127V<br>M: 220/230V<br>U: 240V<br>Q: 380/400V<br>L: 415V<br>X: 440V | 7: 50/60Hz     |

Overview of Accessories

HJX2 4P AC Contactor 09-95A



HJX2 4P AC Contactors

Standard: IEC60947-4



| Technical Parameters                                |                                                         |                               |          |          |          |          |          |           |           |
|-----------------------------------------------------|---------------------------------------------------------|-------------------------------|----------|----------|----------|----------|----------|-----------|-----------|
| AC Contactors                                       |                                                         | HJX2-09                       | HJX2-12  | HJX2-25  | HJX2-40  | HJX2-50  | HJX2-65  | HJX2-80   | HJX2-95   |
| Main circuit characteristics                        |                                                         |                               |          |          |          |          |          |           |           |
| Maximum rated operating voltage (Ue)                |                                                         | 690V                          |          |          |          |          |          |           |           |
| Rated insulation voltage (Ui)                       |                                                         | 690V                          |          |          |          |          |          |           |           |
| Rated impulse withstand voltage (Uimp)              |                                                         | 8kV                           |          |          |          |          |          |           |           |
| Conventional thermal current A                      |                                                         | 25                            | 25       | 40       | 60       | 80       | 80       | 125       | 125       |
| Rated Operating Current                             | 380/400V AC-3 A                                         | 9                             | 12       | 25       | 40       | 50       | 65       | 80        | 95        |
|                                                     | 660/690V AC-3 A                                         | 6.6                           | 8.9      | 18       | 34       | 39       | 42       | 49        | 49        |
|                                                     | 380/400V AC-4 A                                         | 3.3                           | 5        | 8.5      | 18.5     | 24       | 28       | 37        | 44        |
|                                                     | 660/690V AC-4 A                                         | 1.5                           | 2        | 4.4      | 9        | 12       | 14       | 17.3      | 21.3      |
| Rated power of controlled 3-phase cage motor        | 380/400V AC-3 KW                                        | 4                             | 5.5      | 11       | 18.5     | 22       | 30       | 37        | 45        |
|                                                     | 660/690V AC-3 KW                                        | 5.5                           | 7.5      | 15       | 30       | 33       | 37       | 45        | 45        |
|                                                     | 380/400V AC-4 KW                                        | 1.2                           | 2.2      | 4        | 7.5      | 11       | 15       | 18.5      | 22        |
|                                                     | 660/690V AC-4 KW                                        | 1.1                           | 1.5      | 4        | 7.5      | 11       | 11       | 15        | 18.5      |
| Electric durabilities                               | AC-3 ×10 <sup>4</sup> operations                        | 100                           | 100      | 100      | 80       | 80       | 80       | 60        | 60        |
|                                                     | AC-4 ×10 <sup>4</sup> operations                        | 20                            | 20       | 20       | 15       | 15       | 15       | 10        | 10        |
| Mechanical durabilities ×10 <sup>4</sup> operations |                                                         | 1000                          | 1000     | 1000     | 800      | 800      | 800      | 600       | 600       |
| Operating frequency                                 | AC-3 cycles/h                                           | 1200                          | 1200     | 1200     | 600      | 600      | 600      | 600       | 600       |
|                                                     | AC-4 cycles/h                                           | 300                           | 300      | 300      | 300      | 300      | 300      | 300       | 300       |
| Matched fuse                                        |                                                         | HRT16-25                      | HRT16-25 | HRT16-50 | HRT16-63 | HRT16-80 | HRT16-80 | HRT16-125 | HRT16-125 |
| Cable connection cross section mm <sup>2</sup>      |                                                         | 1.5                           | 1.5      | 4        | 10       | 16       | 16       | 25        | 35        |
| Certificate                                         |                                                         | SEMKO                         |          |          |          |          |          |           |           |
| Coil                                                |                                                         |                               |          |          |          |          |          |           |           |
| Coil voltage(Us)                                    |                                                         | AC 24V, 36V, 110V, 220V, 380V |          |          |          |          |          |           |           |
| Operating voltage                                   |                                                         | 85%...110% Us                 |          |          |          |          |          |           |           |
| Drop-out voltage                                    |                                                         | 20%...75% Us                  |          |          |          |          |          |           |           |
| Coil power                                          | Actuation VA                                            | 70                            | 70       | 110      | 200      | 200      | 200      | 200       | 200       |
|                                                     | Holding VA                                              | 9                             | 9        | 11       | 24       | 24       | 24       | 24        | 24        |
|                                                     | Heat dissipation W                                      | 2.7                           | 2.7      | 4        | 10       | 10       | 10       | 10        | 10        |
| Terminal wiring ability                             |                                                         |                               |          |          |          |          |          |           |           |
| Flexible wire without terminal block                | 1pc(Section of connecting conduction mm <sup>2</sup> )  | 1 - 4                         | 1 - 4    | 1.5 - 6  | 2.5 - 25 | 2.5 - 25 | 2.5 - 25 | 4 - 50    | 4 - 50    |
|                                                     | 2pcs(Section of connecting conduction mm <sup>2</sup> ) | 1 - 4                         | 1 - 4    | 1.5 - 6  | 2.5 - 16 | 2.5 - 16 | 2.5 - 16 | 4 - 25    | 4 - 25    |
| Flexible wire with terminal block                   | 1pc(Section of connecting conduction mm <sup>2</sup> )  | 1 - 4                         | 1 - 4    | 1 - 6    | 2.5 - 25 | 2.5 - 25 | 2.5 - 25 | 4 - 50    | 4 - 50    |
|                                                     | 2pcs(Section of connecting conduction mm <sup>2</sup> ) | 1 - 2.5                       | 1 - 2.5  | 1 - 4    | 2.5 - 10 | 2.5 - 10 | 2.5 - 10 | 4 - 16    | 4 - 16    |
| Fixed wire without terminal block                   | 1pc(Section of connecting conduction mm <sup>2</sup> )  | 1 - 4                         | 1 - 4    | 1.5 - 6  | 2.5 - 25 | 2.5 - 25 | 2.5 - 25 | 4 - 50    | 4 - 50    |
|                                                     | 2pcs(Section of connecting conduction mm <sup>2</sup> ) | 1 - 4                         | 1 - 4    | 1.5 - 6  | 2.5 - 16 | 2.5 - 16 | 2.5 - 16 | 4 - 25    | 4 - 25    |
| Auxiliary contact                                   |                                                         |                               |          |          |          |          |          |           |           |
| Rated thermal Current (Ith)                         |                                                         | A                             |          |          |          |          |          |           |           |
| Rated operating Voltage (Ue)                        | AC                                                      | V                             |          |          |          |          |          |           |           |
|                                                     | DC                                                      | V                             |          |          |          |          |          |           |           |
| Rated control capacity                              | AC-15                                                   | VA                            |          |          |          |          |          |           |           |
|                                                     | DC-13                                                   | VA                            |          |          |          |          |          |           |           |

HJX2-F 4P AC Contactors

Standard: IEC60947-4



Range Presentation

HJX2 & HJX2F 4P AC contactor is Himel range of contactors designed for Motor Control AC3 applications up to 800A 690V.

HJX2 & HJX2F contactors are applicable to AC power systems 50Hz or 60Hz with rated operating voltage up to 690V.

HJX2 & HJX2F contactors can be combined with HDR3s thermal overload relays to provide overlaod protection.

Features

- ◆ Current Specifications: 115-800A
- ◆ Pole: 4 poles
- ◆ Coil Voltage: 110-440V
- ◆ Coil Frequency: 50/60Hz

Online Content



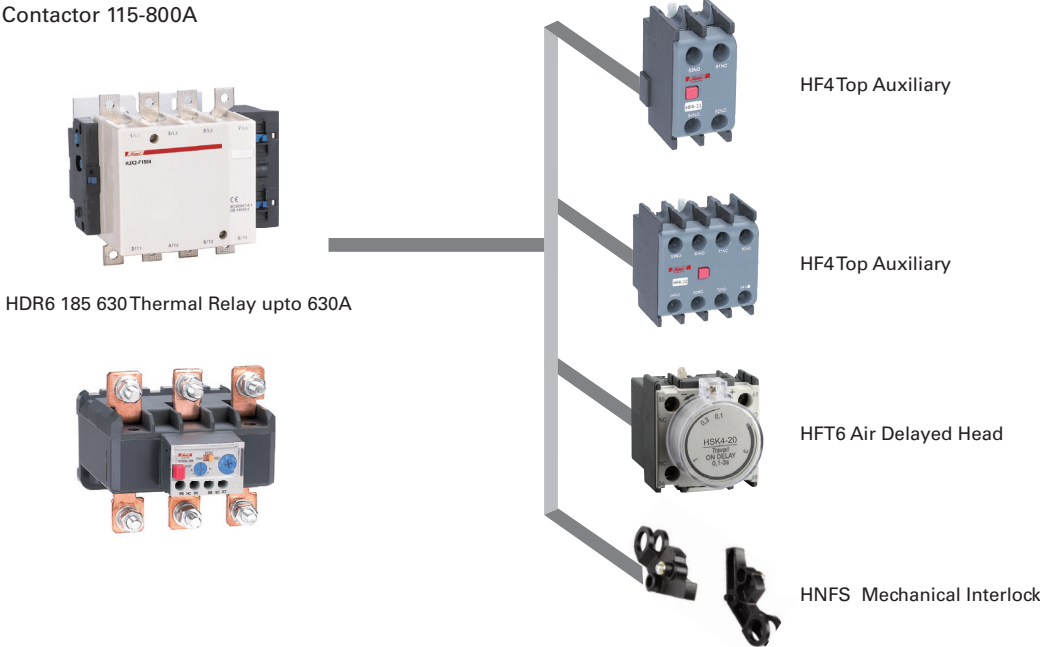
HJX2-F

Selection Code

| Range name | Current specification                        | Main contact | Coil voltage                                                                      | Coil frequency |
|------------|----------------------------------------------|--------------|-----------------------------------------------------------------------------------|----------------|
| HJX2F      | 115                                          | 4            | M                                                                                 | 7              |
| HJX2F      | 115: 115A<br>150: 150A<br>.....<br>800: 800A | 4: 4NO+0NC   | F: 110V<br>S: 127V<br>M: 220/230V<br>U: 240V<br>Q: 380/400V<br>L: 415V<br>X: 440V | 7: 50/60Hz     |

Overview of Accessories

HJX2F 4P AC Contactor 115-800A



HJX2-F 4P AC Contactors

Standard: IEC60947-4



| Technical Parameters                           |                                  |                                                |           |           |           |           |           |           |           |           |           |
|------------------------------------------------|----------------------------------|------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| AC Contactors                                  |                                  | HJX2-F115                                      | HJX2-F150 | HJX2-F185 | HJX2-F225 | HJX2-F265 | HJX2-F330 | HJX2-F400 | HJX2-F500 | HJX2-F630 | HJX2-F800 |
| Main circuit characteristics                   |                                  |                                                |           |           |           |           |           |           |           |           |           |
| Maximum Rated Operating voltage (Ue)           |                                  | 660/690V                                       |           |           |           |           |           |           |           |           |           |
| Rated Insulation Voltage (Ui)                  |                                  | 690V                                           |           |           |           |           |           |           |           |           |           |
| Rated Impulse Withstand Voltage (Uimp)         |                                  | 8kV                                            |           |           |           |           |           |           |           |           |           |
| Conventional thermal current                   |                                  | 200                                            | 250       | 275       | 315       | 350       | 400       | 500       | 630       | 800       | 800       |
| Rated Operating Current                        | 440V AC-3 A                      | 115                                            | 150       | 185       | 225       | 265       | 330       | 400       | 500       | 630       | 800       |
|                                                | 440V AC-4 A                      | 52                                             | 60        | 79        | 85        | 105       | 117       | 138       | 147       | 188       | 195       |
|                                                | 660V AC-3 A                      | 86                                             | 107       | 118       | 135       | 170       | 235       | 305       | 355       | 460       | 493       |
|                                                | 660V AC-4 A                      | 49                                             | 57        | 69        | 82        | 98        | 107       | 135       | 145       | 170       | 175       |
|                                                | Ie max AC-1 Aθ≤40℃               | 200                                            | 250       | 275       | 315       | 350       | 400       | 500       | 630       | 800       | 800       |
| Rated power of AC-3                            | 220/240V                         | 30                                             | 40        | 55        | 63        | 75        | 100       | 129       | 147       | 200       | 220       |
|                                                | 380/400V                         | 55                                             | 75        | 90        | 100       | 132       | 160       | 200       | 250       | 335       | 400       |
|                                                | 415V                             | 59                                             | 80        | 100       | 110       | 140       | 180       | 220       | 280       | 375       | 425       |
|                                                | 440V                             | 59                                             | 80        | 100       | 110       | 140       | 180       | 220       | 280       | 375       | 425       |
|                                                | 500V                             | 75                                             | 90        | 110       | 129       | 160       | 200       | 257       | 335       | 400       | 450       |
|                                                | 660/690V                         | 80                                             | 100       | 120       | 129       | 180       | 220       | 280       | 355       | 450       | 475       |
| Electric durabilities                          | 1000V                            | 65                                             | 65        | 100       | 140       | 147       | 160       | 185       | 335       | 450       | 450       |
|                                                | AC-3 ×10 <sup>4</sup> operations | 60                                             | 60        | 50        | 50        | 50        | 50        | 30        | 30        | 20        | 15        |
| Mechanical durabilities                        | AC-4 ×10 <sup>4</sup> operations | 15                                             | 15        | 15        | 15        | 15        | 15        | 8         | 8         | 5         | 4         |
|                                                | ×10 <sup>4</sup> operations      | 300                                            | 300       | 300       | 300       | 300       | 300       | 100       | 100       | 100       | 100       |
| Operating frequency cycles/h                   | AC-1, AC-2, AC-3                 | 600                                            | 600       | 600       | 600       | 600       | 600       | 300       | 300       | 300       | 300       |
|                                                | AC-4                             | 150                                            | 150       | 150       | 150       | 150       | 150       | 150       | 150       | 150       | 150       |
| Matched fuse                                   | Model                            | HRT16-1                                        | HRT16-1   | HRT16-2   | HRT16-2   | HRT16-2   | HRT16-3   | HRT16-3   | HRT16-3   | HRT16-3   | HRT16-4   |
|                                                | Rated current(A)                 | 200                                            | 250       | 315       | 315       | 400       | 500       | 500       | 500       | 630       | 800       |
| Cable connection cross section mm <sup>2</sup> |                                  | 95                                             | 120       | 150       | 185       | 240       | 240       | 2*150     | 2*240     | 2*60*5    | 2*60*5    |
| Certificate                                    |                                  | CE                                             |           |           |           |           |           |           |           |           |           |
| Coil                                           |                                  |                                                |           |           |           |           |           |           |           |           |           |
| Coil Voltage(Us)                               |                                  | 110V, 220V, 230V, 240V, 380V, 400V, 415V, 440V |           |           |           |           |           |           |           |           |           |
| Operating voltage                              |                                  | Pull in voltage V 85%...110% Us                |           |           |           |           |           |           |           |           |           |
| Drop-out voltage                               | Drop-out voltage AC V            | 20%...75% Us                                   |           |           |           |           |           |           |           |           |           |
|                                                | Drop-out voltage DC V            | 10%...75% Us                                   |           |           |           |           |           |           |           |           |           |
| Average Coil Power                             | Actuation AC VA                  | 855                                            | 855       | 1180      | 1180      | 700       | 700       | 1150      | 1150      | 1730      | 1730      |
|                                                | Holding AC VA                    | 8.1                                            | 8.1       | 10.9      | 10.9      | 10        | 10        | 18        | 20        | 25        | 25        |
|                                                | Actuation DC VA                  | 665                                            | 665       | 902       | 902       | 803       | 803       | 1140      | 1220      | 1920      | 1920      |
|                                                | Holding DC VA                    | 4.83                                           | 4.83      | 5.07      | 5.07      | 4.53      | 4.53      | 7.5       | 8         | 12.5      | 12.5      |
|                                                | Heat Dissipation W               | 7.2                                            | 7.2       | 9.8       | 9.8       | 10.4      | 10.4      | 14        | 18        | 20        | 20        |
| Terminal Wiring Ability - Main Circuit         |                                  |                                                |           |           |           |           |           |           |           |           |           |
| Wiring Bar                                     | Bar quantity                     | 2                                              | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         |
|                                                | Dimensions                       | 20×3                                           | 25×3      | 25×3      | 32×3      | 32×4      | 30×5      | 30×5      | 40×5      | 60×5      | 60×5      |
| Wire With Lug Plate                            | mm <sup>2</sup>                  | 95                                             | 120       | 150       | 185       | 240       | 240       | 2×150     | 2×240     | ---       | ---       |
| Wire With Coupler                              | mm <sup>2</sup>                  | 95                                             | 120       | 150       | 185       | 240       | ---       | ---       | ---       | ---       | ---       |
| Fastening Torque                               | N.m                              | 10                                             | 18        | 18        | 35        | 35        | 35        | 35        | 35        | 58        | 58        |



HJSZ3 Electronic Timer Relays

Standard: IEC60947-4



Range Presentation

HJSZ3 is Himel range of ElectronicTimer relay designed for industrial control applications.

HJSZ3 is applicable to AC 50Hz circuits with controlling voltage up to 400V.

Features

- ◆ Multi-position typeTime delay range
- ◆ Power-on/off delay type available
- ◆ Wild rated voltage input range from 85%~110%

Online Content



HJSZ3

Selection Code

| Range name                          | Time delay                                                                                                                                                                | Operation voltage | Range name                           | Time delay                                                                                                                                                                                                                                                           | Operation voltage |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| HJSZ3A                              | A                                                                                                                                                                         | 120               | HJSZ3F                               | 2S                                                                                                                                                                                                                                                                   | 120               |
| HJSZ3A<br>Time delay after power-on | A: 0.05-0.5s/5s/30s/3M<br>B: 0.1-1s/10s/60s/6M<br>C: 0.5-5s/50s/5M/30M<br>D: 1-10s/100s/10M/60M<br>E: 6s-60s/10M/60M/6h<br>F: 0.2M-2M/20M/2h/12h<br>G: 0.4M-4M/40M/4h/24h | 120<br>240<br>400 | HJSZ3F<br>Time delay after power-off | 1S: 0.1-1s<br>2S: 0.2-2s<br>3S: 0.3s-3s<br>5S: 0.5s-5s<br>6S: 0.6s-6s<br>10S: 1s-10s<br>20S: 2s-20s<br>30S: 3s-30s<br>60S: 6s-60s<br>100S: 10s-100s<br>180S: 18s-180s<br>5M: 0.5min-5min<br>6M: 0.6min-6min<br>10M: 1min-10min<br>20M: 2min-20min<br>30M: 3min-30min | 120<br>240<br>400 |

| Technical Parameters    |                                                                                                                                                                      |                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Electronic Timer Relays |                                                                                                                                                                      | HJSZ3                                                 |
| Condition               | AC-15                                                                                                                                                                | 400V/1.95A; 240V/1.5A; 120V/3.0A                      |
|                         | DC-13                                                                                                                                                                | 250V/0.27A; 125V/0.55A                                |
| Repetitive error        |                                                                                                                                                                      | ≤5%                                                   |
| Rated themal current    |                                                                                                                                                                      | 5A                                                    |
| Mechanical life         |                                                                                                                                                                      | ≥1×10 <sup>6</sup> times                              |
| Electric life           |                                                                                                                                                                      | ≥1×10 <sup>5</sup> times                              |
| Power loss              |                                                                                                                                                                      | ≤3W                                                   |
| Working mode            |                                                                                                                                                                      | A: Delay after power-on      F: Delay after power-off |
| Reset mode              |                                                                                                                                                                      | A: Power-off reset      F: External device reset      |
| Contactor endurance     |                                                                                                                                                                      | A: 5A (Resistive)      F: 1A (Resistive)              |
| Delay time              | HJSZ3A: 0.05s-0.5s/5s/30s/3M, 0.1s-1s/10s/60s/6M                                                                                                                     |                                                       |
|                         | 0.5s-5s/50s/5M/30M, 1s-10s/100s/10M/60M                                                                                                                              |                                                       |
|                         | 6s-60s/10M/60M/6h, 0.2M-2M/20M/2h/12h                                                                                                                                |                                                       |
|                         | 0.4M-4M/40M/4h/24h                                                                                                                                                   |                                                       |
|                         | HJSZ3F: 0.1s-1s, 0.2s-2s, 0.3s-3s, 0.5s-5s, 0.6s-6s, 1s-10s, 2s-20s, 3s-30s, 6s-60s, 10s-100s, 10s-120s, 10s-180s, 0.4M-4M, 0.5M-5M, 0.6M-6M, 1M-10M, 2M-20M, 3M-30M |                                                       |
| Temperature             |                                                                                                                                                                      | -5℃~+40℃                                              |
| Installation mode       |                                                                                                                                                                      | Din rail mounted, Panel mounted                       |

HDZ9 Miniature Relays

Standard: IEC60947-4



Range Presentation

HDZ9 is Himel range of Miniature Relays designed to implement control signal conversion to low power output. They can be widely used for industrial control applications

Features

- ◆ Rated current: 3A, 5A, 10A
- ◆ Pole: 2-pole, 3-pole, 4-pole
- ◆ Maximum rated operating Voltage: 690V
- ◆ Rated operating frequency: 50/60Hz
- ◆ Coil specification: DC: 6V~220V; AC: 6V~380V
- ◆ New specification: Rotary push button

Online Content



HDZ9

Selection Code

| Range name | Current specification       | Poles                   | AC/DC                | LED                     | Coil voltage                                                                                                    | Type                                 |
|------------|-----------------------------|-------------------------|----------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------|
| HDZ9       | 05                          | 2                       | D                    | L                       | M                                                                                                               | R                                    |
| HDZ9       | 03: 3A<br>05: 5A<br>10: 10A | 2: 2P<br>3: 3P<br>4: 4P | Default: AC<br>D: DC | Default: None<br>L: LED | T: 6V<br>J: 12V<br>B: 24V<br>C: 36V<br>E: 48V<br>F: 110V<br>S: 127V<br>M: 220V<br>N: 230V<br>U: 240V<br>Q: 380V | Default: Classic<br>R: Rotary button |

| Technical Parameters           |                    |                                                    |    |    |    |     |    |    |
|--------------------------------|--------------------|----------------------------------------------------|----|----|----|-----|----|----|
| Miniature relays               |                    | HDZ9                                               |    |    |    |     |    |    |
| Type                           |                    | 3A                                                 | 5A |    |    | 10A |    |    |
|                                |                    | 4P                                                 | 2P | 3P | 4P | 2P  | 3P | 4P |
| Max load current               |                    | 3A                                                 | 5A |    |    | 10A |    |    |
| Max operation voltage          |                    | 250VAC 28VDC                                       |    |    |    |     |    |    |
| Contact resistance             |                    | ≤100mΩ                                             |    |    |    |     |    |    |
| Contact material               |                    | Silver Alloy                                       |    |    |    |     |    |    |
| Electrical endurance           |                    | ≥100000 times (1800 times/h)                       |    |    |    |     |    |    |
| Mechanical endurance           |                    | ≥10000000 times (18000 times/h)                    |    |    |    |     |    |    |
| Actuation voltage (23℃ )       |                    | DC: ≤75% (rated voltage), AC: ≤80% (rated voltage) |    |    |    |     |    |    |
| Release voltage (23℃ )         |                    | DC: ≥10% (rated voltage), AC: ≥30% (rated voltage) |    |    |    |     |    |    |
| Maximum voltage (23℃ )         |                    | 110% (rated voltage)                               |    |    |    |     |    |    |
| Insulation resistance          |                    | ≥100MΩ (500VDC)                                    |    |    |    |     |    |    |
| Coil power                     |                    | DC: 0.9 W AC:1.2VA                                 |    |    |    |     |    |    |
| Actuation time (rated voltage) |                    | ≤15ms                                              |    |    |    |     |    |    |
| Release time (rated voltage)   |                    | ≤10ms                                              |    |    |    |     |    |    |
| Withstand voltage              | polar- contacts    | 1500VAC/1min (residual current is 1mA)             |    |    |    |     |    |    |
|                                | bipolar - contacts | 1200VAC/1min (residual current is 1mA)             |    |    |    |     |    |    |
|                                | coil -contacts     | 1500VAC/1min (residual current is 1mA)             |    |    |    |     |    |    |
| Ambient temperature            |                    | -25℃ ~+55℃                                         |    |    |    |     |    |    |
| Ambient humidity               |                    | 35%~85%RH                                          |    |    |    |     |    |    |
| Atmospheric pressure           |                    | 86~106KPa                                          |    |    |    |     |    |    |
| Installation method            |                    | Plug-in                                            |    |    |    |     |    |    |
| Weight                         |                    | 30g                                                |    |    |    |     |    |    |
| Coil voltage                   |                    | DC: 6V~220V; AC: 6V~380V.                          |    |    |    |     |    |    |
| Certificate                    |                    | CB, CE, SEMKO                                      |    |    |    |     |    |    |

HDC17K Miniature AC Contactors

Standard: IEC60947-4



Range Presentation

HDC17K is Himel Miniature AC Contactor for Remote make & break of circuits

Frequent start and stop of small power motors

Features

- ◆ Current: 6-12A
- ◆ Pole: 3/4-pole
- ◆ Coil voltage: 24-400V
- ◆ Coil frequency: 50/60Hz

Online Content



HDC17K

Selection Code

| Range name | Current specification         | Main contact                      | Auxiliary contact  | Coil voltage                                                         | Coil frequency |
|------------|-------------------------------|-----------------------------------|--------------------|----------------------------------------------------------------------|----------------|
| HDC17K     | 06                            | 30                                | 10                 | M                                                                    | 5              |
| HDC17K     | 06: 06A<br>09: 09A<br>12: 12A | 30: 3NO<br>40: 4NO<br>22: 2NO+2NC | 10: 1NO<br>01: 1NC | B: 24V<br>C: 36V<br>F: 110V<br>S: 127V<br>M: 220/230V<br>Q: 380/400V | 7: 50/60Hz     |

Order Information

| Motor<br>P(kW) 380V | Rated<br>current(A) | Main contact |    | Auxiliary contact |    | Reference     |
|---------------------|---------------------|--------------|----|-------------------|----|---------------|
|                     |                     | NO           | NC | NO                | NC |               |
| 2.2                 | 6                   | 3            | 0  | 1                 | 0  | HDC17K63010*  |
|                     |                     | 3            | 0  | 0                 | 1  | HDC17K63001*  |
|                     |                     | 4            | 0  | 0                 | 0  | HDC17K64000*  |
|                     |                     | 2            | 2  | 0                 | 0  | HDC17K62200*  |
| 4                   | 9                   | 3            | 0  | 1                 | 0  | HDC17K93010*  |
|                     |                     | 3            | 0  | 0                 | 1  | HDC17K93001*  |
|                     |                     | 4            | 0  | 0                 | 0  | HDC17K94000*  |
|                     |                     | 2            | 2  | 0                 | 0  | HDC17K92200*  |
| 4                   | 12                  | 3            | 0  | 1                 | 0  | HDC17K123010* |
|                     |                     | 3            | 0  | 0                 | 1  | HDC17K123001* |
|                     |                     | 4            | 0  | 0                 | 0  | HDC17K124000* |

HDC17K Miniature AC Contactors

Standard: IEC60947-4



| Technical Parameters                      |                        |                             |                                        |          |           |           |
|-------------------------------------------|------------------------|-----------------------------|----------------------------------------|----------|-----------|-----------|
| Miniature AC Contactors                   |                        |                             | HDC17-K06                              |          | HDC17-K09 | HDC17-K12 |
| Main circuit characteristics              |                        |                             |                                        |          |           |           |
| Rated operating current                   | 380V/400V, AC-3        | A                           | 6                                      | 9        | 12        |           |
|                                           | 380V/400V, AC-4        | A                           | 2.6                                    | 3.5      | 5         |           |
|                                           | 660V/690V, AC-3        | A                           | 3.5                                    | 5        | 6         |           |
|                                           | 660V/690V, AC-4        | A                           | 1.2                                    | 1.5      | 2         |           |
| Rated operating voltage                   |                        | V                           | 220/230, 380/400, 660/690              |          |           |           |
| Rated insulation voltage                  |                        | V                           | 690                                    |          |           |           |
| Rated conventional thermal current        |                        | A                           | 16                                     | 20       | 20        |           |
| Pole                                      |                        |                             | 3, 4                                   |          |           |           |
| Power of controlled<br>3-phase cage motor | 220V/230V, AC-3        | kW                          | 1.5                                    | 2.2      | 3         |           |
|                                           | 380V/400V, AC-3        | kW                          | 2.2                                    | 4        | 5.5       |           |
|                                           | 660V/690V, AC-3        | kW                          | 3                                      | 4        | 4         |           |
| Electric endurance                        | AC-3                   | ×10 <sup>4</sup> operations | 100                                    |          |           |           |
| Operating rate                            |                        | cycles/h                    | 1200                                   |          |           |           |
| Electric endurance                        | AC-4                   | ×10 <sup>4</sup> operations | 20                                     |          |           |           |
| Operating rate                            |                        | cycles/h                    | 600                                    |          |           |           |
| Mechanical endurance                      |                        | ×10 <sup>4</sup> cycles     | 1000                                   |          |           |           |
| Matched Fuse                              |                        |                             | HRT16-16                               | HRT16-20 |           |           |
| Cable connection                          | Inflexible cable       | number of piece             | 2                                      |          |           |           |
|                                           | Cross Section of Cable | mm <sup>2</sup>             | 4                                      |          |           |           |
| Certificate                               |                        |                             | CB, CE                                 |          |           |           |
| Coil                                      |                        |                             |                                        |          |           |           |
| Coil voltage(Us)                          |                        | V                           | AC 24V,36V,110V,127V,220/230V,380/400V |          |           |           |
| Operating voltage                         |                        | V                           | 85%~110% Us                            |          |           |           |
| Drop-out voltage                          |                        | V                           | 20%~75% Us                             |          |           |           |
| Inrush                                    |                        | VA                          | 30                                     |          |           |           |
| Auxiliary contact                         |                        |                             |                                        |          |           |           |
| Rated conventional thermal current        |                        | V                           | 690                                    |          |           |           |
| Rated insulation voltage                  |                        | A                           | 10                                     |          |           |           |
| Rated operating current                   |                        | A                           | 0.95                                   |          |           |           |
| Control capacity                          | 380V, AC-15            | A                           | 0.15                                   |          |           |           |
|                                           | 220V, DC-13            | VA                          | 360                                    |          |           |           |
|                                           | AC-15                  | W                           | 33                                     |          |           |           |
|                                           | DC-13                  |                             |                                        |          |           |           |

MOTOR MANAGEMENT

HDZ3 Contactor Relays

Standard: IEC60947-4



Range Presentation

HDZ3 is Himel 3 series range of contactor relays design for industrial control applications.

HDZ3 contactor relays are suitable for AC and DC 50/60Hz control circuits.

Features

- ◆ For both DC and AC 50/60Hz control circuits
- ◆ 3 poles, similar design as HDC3 contactor
- ◆ 4 contacts with different NO+NC combinations
- ◆ Wide range of coil voltages 24V-440V

Online Content



HDZ3

Selection Code

| Range name | Main contact                                                            | Coil voltage                                                                                                    | Coil frequency        |
|------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------|
| HDZ3       | 22                                                                      | M                                                                                                               | 5                     |
| HDZ3       | 22: 2NO+2NC<br>31: 3NO+1NC<br>40: 4NO+0NC<br>13: 1NO+3NC<br>04: 0NO+4NC | B: 24V<br>C: 36V<br>E: 48V<br>F: 110V<br>S: 127V<br>M: 220/230V<br>U: 240V<br>Q: 380/400V<br>L: 415V<br>X: 440V | 5: 50Hz<br>7: 50/60Hz |

MOTOR MANAGEMENT

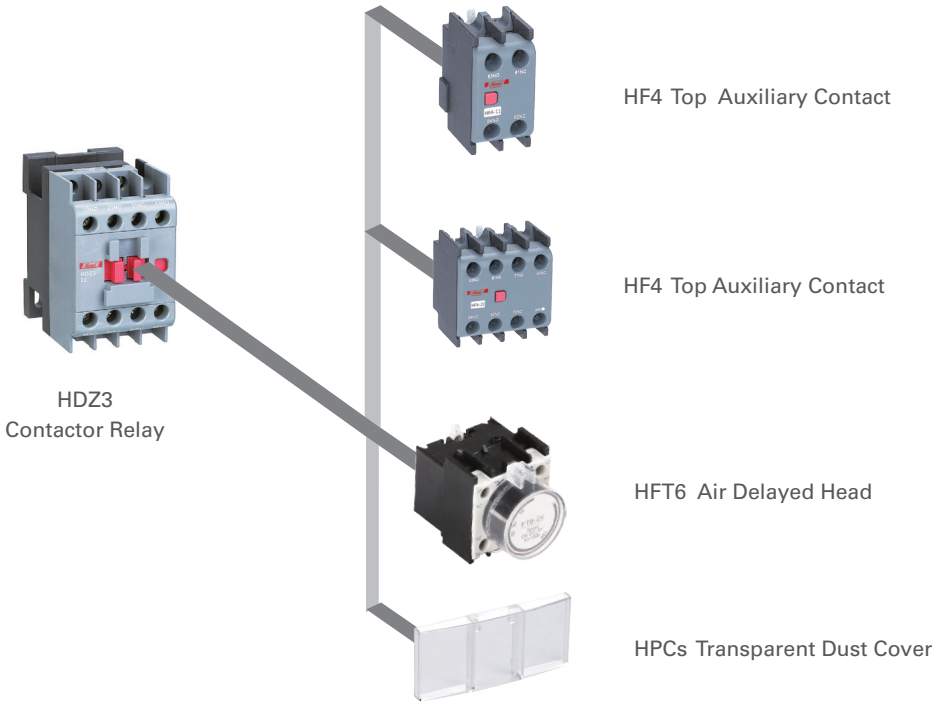
HDZ3 Contactor Relays

Standard: IEC60947-4



| Technical Parameters               |              |                                                       |
|------------------------------------|--------------|-------------------------------------------------------|
| Contactor Relays                   |              | HDZ3                                                  |
| Rated insulation voltage (Ui)      | V            | 690                                                   |
| Conventional thermal current (Ith) | A            | 10                                                    |
| Rated operating current (Ie)       | A            | AC-15 380V: 0.95                                      |
|                                    |              | DC-13 220V: 0.15                                      |
| Contact combination                |              | 2NO+2NC, 3NO+1NC, 4NO+0NC, 1NO+3NC, 0NO+4NC           |
| Electrical endurance               | 10,000 times | 110                                                   |
| Mechanical endurance               | 10,000 times | 1100                                                  |
| Operating frequency                | times/Hour   | 1200                                                  |
| Rated control circuit voltage(Us)  | 50Hz         | 24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440 |
|                                    | 50/60Hz      | 24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440 |
| Operating voltage range            | V            | AC 85%...110% Us                                      |
| Drop-out voltage range             | V            | AC 20%...75% Us                                       |
| Certificate                        |              | CE, CB, SEMKO                                         |

Overview of Accessories



MOTOR MANAGEMENT

HXJ9 Phase Failure and Sequence Protection Relay

Standard: IEC60947-4



Range Presentation

HXJ9 is Himel range of phase failure and sequence protection relay

Features

- ◆ Rated frequency is 50Hz, and rated control supply AC voltage is 400V
- ◆ Phase failure and phase sequence protections

Online Content



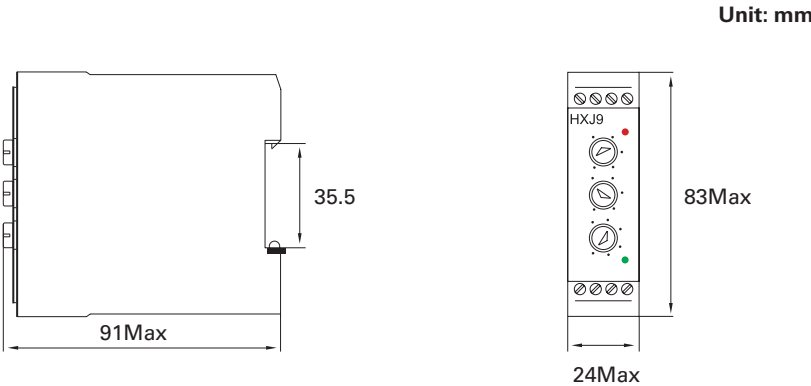
HXJ9

Order Information

| Function                              | Voltage | Reference |
|---------------------------------------|---------|-----------|
| Phase Failure and sequence Protection | 380V    | HXJ9      |
|                                       | 400V    | HXJ9400   |

| Technical Parameters                     |                                                                                    |
|------------------------------------------|------------------------------------------------------------------------------------|
| Standard                                 | IEC 60947-5-1                                                                      |
| Overvoltage protection                   | Adjustable, HXJ9: 380~460V, HXJ9400: 400~480V, Reaction time: 1.5s-4s (adjustable) |
| Undervoltage protection                  | Adjustable, HXJ9: 300~380V, HXJ9400: 320~400V. Reaction time: 2s-9s (adjustable)   |
| Phase failure & phase wrong protect time | Reaction time ≤2s                                                                  |
| Contactor mode                           | 1 NO, 1NC                                                                          |
| Contactor endurance                      | 5A Resistive                                                                       |
| Power voltage                            | AC 400V                                                                            |
| Mechanical lifetime                      | ≥1×10 <sup>6</sup> times                                                           |
| Electrical lifetime                      | ≥1×10 <sup>5</sup> times                                                           |
| Power loss                               | ≤1W                                                                                |
| Contactor capacity                       | AC400V×3                                                                           |

Overall Dimensions



MOTOR MANAGEMENT

HDP6 Motor Circuit Breakers

Standard: IEC60947-4



Range Presentation

HDP6 Motor Control & Protection range is meant to help optimize and secure your installation from HVAC to small Genset applications. It also helps your packaging or pumping businesses to run on a reliable product.

Features

- ◆ Frame Current: 32A, 80A
- ◆ Setting Current: 0.1-32A, 25-80A

Online Content



HDP6

The range covers application up to 32A including wide range of voltage from 230V up to 690V

Selection Code

| Range name  | Frame size | Setting currents                       |
|-------------|------------|----------------------------------------|
| <b>HDP6</b> | <b>32</b>  | <b>P16</b>                             |
| HDP6        | 32: 32A    | P16: 0.1-0.16A<br>.....<br>32: 24-32A  |
| HDP17K      | 80: 80A    | 40: 25-40A<br>63: 40-63A<br>80: 56-80A |

Order Information

| Thermal release<br>Setting current | Magnetic release<br>Current Id | 400/415V, 50/60Hz, AC-3<br>Rated operating power | Recommended<br>Contactor | Reference  |
|------------------------------------|--------------------------------|--------------------------------------------------|--------------------------|------------|
| 0.1-0.16A                          | 1.5A                           | -                                                | HDC3-0911                | HDP632P16  |
| 0.16-0.25A                         | 2.4A                           | 0.06kW                                           | HDC3-0911                | HDP632P25  |
| 0.25-0.4A                          | 5A                             | 0.09kW                                           | HDC3-0911                | HDP632P4   |
| 0.4-0.63A                          | 8A                             | 0.12kW                                           | HDC3-0911                | HDP632P63  |
| 0.63-1A                            | 13A                            | 0.25kW                                           | HDC3-0911                | HDP6321    |
| 1-1.6A                             | 22.5A                          | 0.37kW                                           | HDC3-0911                | HDP6321P6  |
| 1.6-2.5A                           | 33.5A                          | 0.75kW                                           | HDC3-0911                | HDP6322P5  |
| 2.5-4A                             | 51A                            | 1.5kW                                            | HDC3-0911                | HDP6324    |
| 4-6.3A                             | 78A                            | 2.2kW                                            | HDC3-0911                | HDP6326P3  |
| 6-10A                              | 138A                           | 4kW                                              | HDC3-0911                | HDP63210   |
| 9-14A                              | 170A                           | 5.5kW                                            | HDC3-1211                | HDP63214   |
| 13-18A                             | 223A                           | 7.5kW                                            | HDC3-1811                | HDP63218   |
| 17-23A                             | 327A                           | 9kW                                              | HDC3-2511                | HDP63223   |
| 20-25A                             | 327A                           | 11kW                                             | HDC3-2511                | HDP63225   |
| 24-32A                             | 416A                           | 15kW                                             | HDC3-3211                | HDP63232   |
| 25-40A                             | 480A                           | 16kW                                             | HDC3-4011                | HDP17K8040 |
| 40-63A                             | 756A                           | 20kW                                             | HDC3-6511                | HDP17K8065 |
| 56-80A                             | 960A                           | 25kW                                             | HDC3-8011                | HDP17K8080 |



MOTOR MANAGEMENT

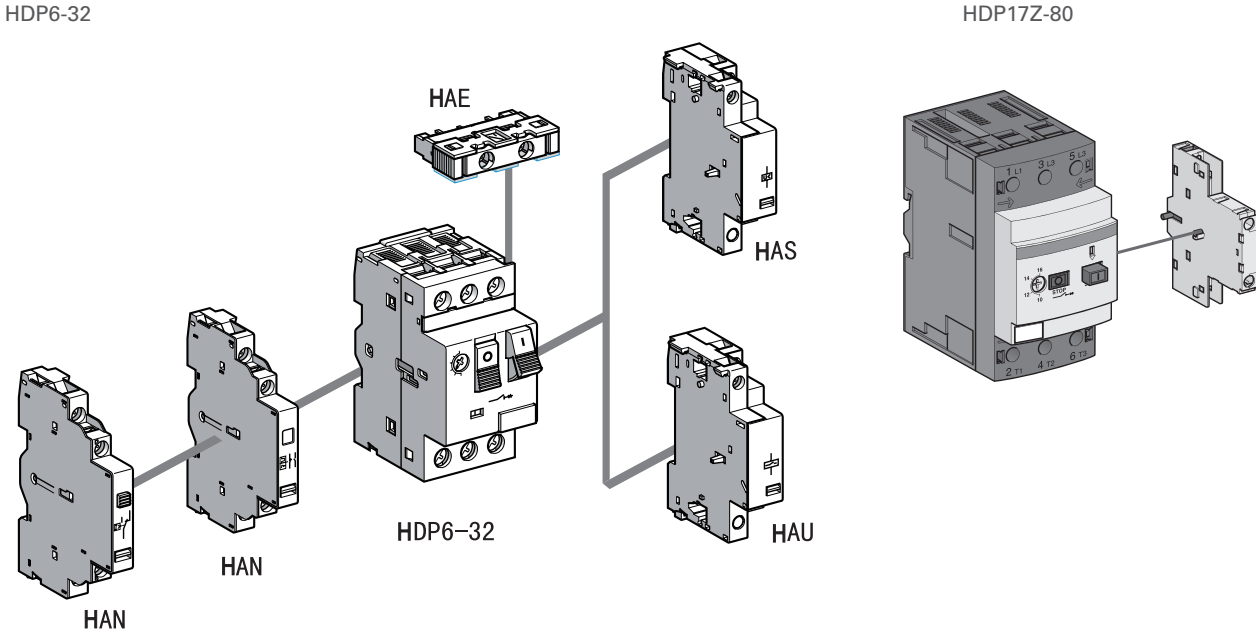
HDP6 Motor Circuit Breakers

Standard: IEC60947-4



| Technical Parameters              |                                                                  |                        |
|-----------------------------------|------------------------------------------------------------------|------------------------|
| Motor Circuit Breakers            | HDP6-32                                                          | HDP17Z-80              |
| Operation mode                    | Button operated                                                  |                        |
| Frame current                     | 32A                                                              | 80A                    |
| Rated impulse withstand voltage   | 6000V                                                            |                        |
| Maximum rated operating voltage   | 690V                                                             |                        |
| Rated insulation voltage          | 400/690V                                                         |                        |
| Rated operating frequency         | 50/60Hz                                                          |                        |
| Trip class                        | 10A                                                              |                        |
| Fastening torque                  | 1.7N • m                                                         | 4 N • m                |
| Mechanical durabilities           | 100,000                                                          |                        |
| Electrical durabilities AC-3 400V | 100000                                                           |                        |
| Overload protection category      | Thermal Overload Protection<br>Open-phase Protection             |                        |
| Short circuit protection          | Yes                                                              |                        |
| Isolation function                | Yes                                                              |                        |
| Temperature compensation function | Yes                                                              |                        |
| Accessories                       | Side Auxiliary Contact<br>Top Auxiliary Contact<br>Shunt release | Side Auxiliary Contact |
| Certificate                       | CE, SEMKO                                                        |                        |

Overview of Accessories



MOTOR MANAGEMENT

HDS3 Magnetic Starters

Standard: IEC60947-4



Range Presentation

HDS3 is Himel 3 series range of Magnetic Starter mainly used for AC 50/60Hz control system and maximum rated working voltage up to 660V. Direct start and stop of three-phase squirrel cage induction motor with maximum rated working current up to 95A under AC-3 using type, and overload protection is provided for the motor.

Features

- ◆ Frame size 38 with plastic housing
- ◆ Frame size 18/38/95 with metal housing
- ◆ IP54 Protection level
- ◆ With HDC3 series contactor and HDR3s series thermal relay

Online Content



HDS3

Selection Code

| Range name | Frame size                    | Operation type         | Rated current              | Coil voltage                                                                     | Coil frequency | Thermal relay                                           | Housing                         |
|------------|-------------------------------|------------------------|----------------------------|----------------------------------------------------------------------------------|----------------|---------------------------------------------------------|---------------------------------|
| HDS3       | 38                            | B                      | 09                         | M                                                                                | 7              | P16                                                     |                                 |
| HDS3       | 18: 18A<br>38: 38A<br>95: 95A | B:<br>with push button | 09: 9A<br>.....<br>95: 95A | C: 36V<br>F: 110V<br>S: 127V<br>M: 220/230V<br>Q: 380/400V<br>L: 415V<br>X: 440V | 7: 50/60Hz     | P16: 0.1-0.16A<br>1P6: 1.0-1.6 A<br>.....<br>93: 80-93A | Default:<br>Plastic<br>M: Metal |

| Technical Parameters                 |                         |                                                                                                                                                                                                                                                                                           |     |      |               |      |      |               |      |      |      |      |
|--------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|---------------|------|------|---------------|------|------|------|------|
| Magnetic Starters                    |                         | HDS3-18 Metal                                                                                                                                                                                                                                                                             |     |      | HDS3-38 Metal |      |      | HDS3-95 Metal |      |      |      |      |
|                                      |                         | HDS3-38 Plastic                                                                                                                                                                                                                                                                           |     |      |               |      |      |               |      |      |      |      |
| Rated operatiing current (Ie) AC-3   |                         | 9A                                                                                                                                                                                                                                                                                        | 12A | 18A  | 25A           | 32A  | 38A  | 40A           | 50A  | 65A  | 80A  | 95A  |
| Maximum motor power kW ( AC-3,380V ) |                         | 4                                                                                                                                                                                                                                                                                         | 5.5 | 7.5  | 11            | 15   | 18.5 | 18.5          | 22   | 30   | 37   | 45   |
| Horse power hp ( AC-3,380V)          |                         | 5.4                                                                                                                                                                                                                                                                                       | 7.4 | 10.1 | 20.1          | 24.8 | 40.2 | 40.2          | 44.2 | 49.6 | 60.4 | 60.4 |
| Mechanical endurance                 | 10 thousand times       | 1200                                                                                                                                                                                                                                                                                      |     |      | 1000          |      |      | 900           |      |      | 650  |      |
| Electrical endurance AC-3            | 10 thousand times       | 110                                                                                                                                                                                                                                                                                       |     |      |               |      |      | 90            |      |      | 65   |      |
| Operation frequency AC-3 time/h      |                         | 1200                                                                                                                                                                                                                                                                                      |     |      |               |      |      | 600           |      |      |      |      |
| Rated insultaion voltage (Ui)        |                         | 690V                                                                                                                                                                                                                                                                                      |     |      |               |      |      |               |      |      |      |      |
| Rated operating voltage (Ue)         |                         | 240V, 380V/400V, 440V, 660V                                                                                                                                                                                                                                                               |     |      |               |      |      |               |      |      |      |      |
| Rated control circuit voltage (Uc)   |                         | 36V, 110V, 127V, 220/230, 380/400, 415V, 440V                                                                                                                                                                                                                                             |     |      |               |      |      |               |      |      |      |      |
| Coil frequency                       |                         | 50/60Hz                                                                                                                                                                                                                                                                                   |     |      |               |      |      |               |      |      |      |      |
| Operation type                       |                         | With Pushbutton                                                                                                                                                                                                                                                                           |     |      |               |      |      |               |      |      |      |      |
| IP grade                             |                         | IP54                                                                                                                                                                                                                                                                                      |     |      |               |      |      |               |      |      |      |      |
| Certificate                          |                         | CE, SEMKO                                                                                                                                                                                                                                                                                 |     |      |               |      |      |               |      |      |      |      |
| Standard                             |                         | IEC 60947-4-1                                                                                                                                                                                                                                                                             |     |      |               |      |      |               |      |      |      |      |
| Environmental requirement            | Altitude                | 2000m                                                                                                                                                                                                                                                                                     |     |      |               |      |      |               |      |      |      |      |
|                                      | Ambient temperature     | -5℃~+40℃                                                                                                                                                                                                                                                                                  |     |      |               |      |      |               |      |      |      |      |
|                                      | Storage temperature     | -25℃~+70℃                                                                                                                                                                                                                                                                                 |     |      |               |      |      |               |      |      |      |      |
|                                      | Installation position   | The inclination to the vertical plane does not exceed ±5°                                                                                                                                                                                                                                 |     |      |               |      |      |               |      |      |      |      |
|                                      | Rated withstand voltage | 6kV                                                                                                                                                                                                                                                                                       |     |      |               |      |      |               |      |      |      |      |
|                                      | Humidity requirement    | The atmospheric relative humidity does not exceed 50% when the highest ambient temperature is +40℃。 It is allowed to have a higher humidity under lower temperature, e.g. up to 90% at +25℃ and the dew on the product due to the temperature change should be taken into consid-eration. |     |      |               |      |      |               |      |      |      |      |
|                                      | Installation condition  | a. In a medium where is no explosion danger, and the medium has no place where can corrode matal and damage insulated gas and conductive dust;<br>b. In a place where has snow-proof equipment and lack of water vapour;<br>c. In a place without significant shock andd vibration.       |     |      |               |      |      |               |      |      |      |      |

MOTOR MANAGEMENT

# HDS3 Magnetic Starters

Standard: IEC60947-4



Order Information

| Motor power pe (KW, AC-3, 380V) | Rated current (A) | Frame size          |                     | Setting current (A) |          | AC Contactor type             | Thermal overload relay type   | Order reference with pushbutton |
|---------------------------------|-------------------|---------------------|---------------------|---------------------|----------|-------------------------------|-------------------------------|---------------------------------|
|                                 |                   | HDS3                |                     | Range               | Code     | HDC3                          | HDR3s                         |                                 |
|                                 | 9                 | HDS3-18<br>Metallic |                     | 0.1~0.16            | P16      | HDC3-9A                       | HDR3s-25                      | HDS318B09*7P16M /HDS338B09*7P16 |
|                                 |                   |                     |                     | 0.16~0.25           | P25      |                               |                               | HDS318B09*7P25M /HDS338B09*7P25 |
|                                 |                   |                     |                     | 0.25~0.4            | P4       |                               |                               | HDS318B09*7P4M /HDS338B09*7P4   |
|                                 |                   |                     |                     | 0.4~0.63            | P63      |                               |                               | HDS318B09*7P63M /HDS338B09*7P63 |
|                                 |                   |                     |                     | 0.63~1              | 1        |                               |                               | HDS318B09*701M /HDS338B09*701   |
| 0.37                            |                   |                     |                     | 1~1.6               | 1P6      |                               |                               | HDS318B09*71P6M /HDS338B09*71P6 |
| 0.75                            |                   |                     |                     | 1.6~2.5             | 2P5      |                               |                               | HDS318B09*72P5M /HDS338B09*72P5 |
| 1.5                             |                   |                     |                     | 2.5~4               | 4        |                               |                               | HDS318B09*704M /HDS338B09*704   |
| 2.2                             |                   |                     |                     | 4~6                 | 6        |                               |                               | HDS318B09*706M /HDS338B096*706  |
| 3                               |                   |                     |                     | 5.5~8               | 8        |                               |                               | HDS318B09*708M /HDS338B09*708   |
| 4                               | 12                |                     | 7~10                | 10                  | HDC3-12A | HDS318B12*710M /HDS338B12*710 |                               |                                 |
| 5.5                             | 18                |                     | 9~13                | 13                  | HDC3-18A | HDS318B18*713M /HDS338B18*713 |                               |                                 |
| 7.5                             | 25                | HDS3-38<br>Metallic | 12~18               | 18                  | HDC3-25A | HDS338B25*718M /HDS338B25*718 |                               |                                 |
| 11                              |                   |                     | 17~25               | 25                  |          | HDS338B25*725M /HDS338B25*725 |                               |                                 |
| 15                              | 32                |                     | 23~32               | 32                  | HDC3-32A | HDR3s-3                       | HDS338B32*732M /HDS338B32*732 |                                 |
| 18.5                            | 38                |                     | 30~40               | 38                  | HDC3-38A |                               | HDS338B38*740M /HDS338B38*740 |                                 |
| 18.5                            | 40                |                     | HDS3-95<br>Metallic | 30~40               | 40       | HDC3-40A                      | HDR3s-93                      | HDS395B40*740                   |
| 22                              | 50                | 37~50               |                     | 50                  | HDC3-50A | HDS395B50*750                 |                               |                                 |
| 30                              | 65                | 48~65               |                     | 65                  | HDC3-65A | HDS395B65*765                 |                               |                                 |
| 37                              | 80                | 63~80               |                     | 80                  | HDC3-80A | HDS395B80*780                 |                               |                                 |
| 45                              | 93A               | 80~93               |                     | 93                  | HDC3-95A | HDS395B95*793                 |                               |                                 |



## Variable Speed Drives

Wherever you need an efficient motor, a variable speed drive is a must...



High Performance



Improved Energy Savings



Multitude of Function



Easy to Use



Longer Lifetime



Himel. Reliable made affordable.

General Purpose Variable Speed Drives



Range Selection

| Capacity Range ( Motor Capacity in kW ) |      |     |     |     |   |     |     |    |    |      |    |    |    |    |    |    |    |     |     |     |     |                                                                                      |     |     |     |     |  |
|-----------------------------------------|------|-----|-----|-----|---|-----|-----|----|----|------|----|----|----|----|----|----|----|-----|-----|-----|-----|--------------------------------------------------------------------------------------|-----|-----|-----|-----|--|
| 0.4                                     | 0.75 | 1.5 | 2.2 | 3.7 | 4 | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 | 30 | 37 | 45 | 55 | 75 | 90 | 110 | 132 | 160 | 185 | 200                                                                                  | 220 | 250 | 280 | 315 |  |
| BASIC                                   |      |     |     |     |   |     |     |    |    |      |    |    |    |    |    |    |    |     |     |     |     |   |     |     |     |     |  |
| HAV-BA-2S                               |      |     |     |     |   |     |     |    |    |      |    |    |    |    |    |    |    |     |     |     |     |                                                                                      |     |     |     |     |  |
| HAV-BA-4T                               |      |     |     |     |   |     |     |    |    |      |    |    |    |    |    |    |    |     |     |     |     |                                                                                      |     |     |     |     |  |
| EXPERT XC                               |      |     |     |     |   |     |     |    |    |      |    |    |    |    |    |    |    |     |     |     |     |   |     |     |     |     |  |
| HAV-XC-2S                               |      |     |     |     |   |     |     |    |    |      |    |    |    |    |    |    |    |     |     |     |     |                                                                                      |     |     |     |     |  |
| HAV-XC-4T                               |      |     |     |     |   |     |     |    |    |      |    |    |    |    |    |    |    |     |     |     |     |                                                                                      |     |     |     |     |  |
| EXPERT XS                               |      |     |     |     |   |     |     |    |    |      |    |    |    |    |    |    |    |     |     |     |     |  |     |     |     |     |  |
| HAV-XS-2S                               |      |     |     |     |   |     |     |    |    |      |    |    |    |    |    |    |    |     |     |     |     |                                                                                      |     |     |     |     |  |
| HAV-XS-2T                               |      |     |     |     |   |     |     |    |    |      |    |    |    |    |    |    |    |     |     |     |     |                                                                                      |     |     |     |     |  |
| HAV-XS-4T                               |      |     |     |     |   |     |     |    |    |      |    |    |    |    |    |    |    |     |     |     |     |                                                                                      |     |     |     |     |  |

\* 2S = 200-240V Single Phase, 2T = 200-240V Three Phase, 4T = 380-440V Three Phase

BASIC Range

Range Presentation

Himel BASIC series variable speed drives (VSDs) are for single phase/three phase asynchronous motors from 0.45 kW to 5.5 kW. Designed for your small machines and simple general purpose applications like pumps, fans, carving machines etc. Himel BASIC VSDs are designed to focus on essential needs in terms of hardware and software. It is a high performance economical range.

Features

- ◆ Economical range
- ◆ Easy to use
- ◆ Robust design
- ◆ Embedded protection and communication functions
- ◆ Built in PLC

Online Content



Basic

Selection Code



| Series name  | Input                                                                  | Power range                                                                                            | Drive type    |
|--------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|
| <b>HAVBA</b> | <b>4T</b>                                                              | <b>0007</b>                                                                                            | <b>G</b>      |
| HAVBA: BASIC | 2: 200-220V<br>4: 380V – 440V<br><br>S: Single-phase<br>T: Three-phase | 0004: 0.4kW<br>0007: 0.75kW<br>0015: 1.5kW<br>0022: 2.2kW<br>0037: 3.7kW<br>0040: 4.0kW<br>0055: 5.5kW | G: Heavy Duty |

General Purpose Variable Speed Drives



EXPERT Compact

Range Presentation

Himel EXPERT Compact range variable speed drives (VSDs) are for single/three phase asynchronous motors from 0.4 kW to 4 kW. It is designed for side by side mounting to increase the integration density for different applications.

Features

- ◆ Compact design
- ◆ Side by side mounting
- ◆ Built-in simple controller
- ◆ Integrated Modbus communication

Online Content



EXPERT Compact

Selection Code



| Range name            | Input                                                              | Power range                                                                             | Drive type    |
|-----------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------|
| <b>HAVXC</b>          | <b>4T</b>                                                          | <b>0007</b>                                                                             | <b>G</b>      |
| HAVXC: EXPERT Compact | 2: 200-240V<br>4: 380V – 440V<br>S: Single-phase<br>T: Three-phase | 0004: 0.4kW<br>0007: 0.75kW<br>0015: 1.5kW<br>0022: 2.2kW<br>0037: 3.7kW<br>0040: 4.0kW | G: Heavy Duty |

EXPERT Standard

Range Presentation

Himel EXPERT Standard range variable speed drives are for single/three phase asynchronous motors from 0.75kW to 315kW. EXPERT Standard is designed for advanced machines and advanced general purpose applications like material handling, wood machines, process machines, textile machines and packaging etc.

Features

- ◆ Advanced functions and performances
- ◆ Embedded EMC filter
- ◆ Built-in braking unit
- ◆ Embedded protection and communication functions
- ◆ Different communication protocols options

Online Content



EXPERT Standard

Selection Code



| Range name             | Input                                                              | Power range                                                                       | Drive type    | Power rangen                                                                    | Drive type                                       |
|------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------|--------------------------------------------------|
| <b>HAVXS</b>           | <b>4T</b>                                                          | <b>0007</b>                                                                       | <b>G</b>      | <b>0015</b>                                                                     | <b>P(S)</b>                                      |
| HAVXS: EXPERT Standard | 2: 200-240V<br>4: 380V – 440V<br>S: Single-phase<br>T: Three-phase | 0007: 0.75kW<br>0015: 1.5kW<br>0022: 2.2kW<br>.....<br>2500: 250kW<br>2800: 280kW | G: Heavy Duty | 0055: 5.5kW<br>0075: 7.5kW<br>0110: 11kW<br>.....<br>2800: 280kW<br>3150: 315kW | P: Normal Duty<br>S: Floor standing installation |



General Purpose Variable Speed Drives



| Target Application |                                    | Small & Simple General Purpose Applications          |                              | Pumps, Fans and Advanced General Purpose Application |  |                                                               |  |
|--------------------|------------------------------------|------------------------------------------------------|------------------------------|------------------------------------------------------|--|---------------------------------------------------------------|--|
| Range Name         |                                    | BASIC BA                                             |                              | EXPERT XC                                            |  | EXPERT XS                                                     |  |
| Capacity range     | Single phase 200V Class            | 200V(-10%)-220V(+10%)<br>0.4-2.2kW                   |                              | 200V(-15%)-240V(+10%)<br>0.4-2.2kW                   |  | 200V(-15%)-220V(+10%)<br>0.75-2.2kW                           |  |
|                    | Three phase 200V Class             | —                                                    |                              | —                                                    |  | 200V(-15%)-240V(+10%)<br>0.75-160kW                           |  |
|                    | Three phase 400V Class             | 380V(-15%)-440V(+10%)<br>0.4-5.5kW                   |                              | 380V(-15%)-440V(+10%)<br>0.75-4kW                    |  | 380V(-15%)-440V(+10%)<br>0.75-315kW                           |  |
| Frequency          | Input frequency                    | 50/60Hz                                              |                              |                                                      |  |                                                               |  |
|                    | Output frequency                   | 0-650Hz                                              |                              | 0-550Hz                                              |  |                                                               |  |
| Overload capacity  | Normal Duty                        | —                                                    |                              | —                                                    |  | 120% for 1min, 150% for 1s, 180% instant protection           |  |
|                    | Heavy Duty                         | 150% for 1min, 180% for 1s,200% instant protection   |                              | 150% for 1min, 180% for 3s, 200% instant protection  |  | 150% for 1min, 180% for 3s, 200% instant protection           |  |
| Control method     | V/f                                | √                                                    |                              | √                                                    |  | √                                                             |  |
|                    | Sensor less vector control         | √                                                    |                              | √                                                    |  | √                                                             |  |
|                    | Eco-mode control                   | √                                                    |                              | √                                                    |  | √                                                             |  |
| Start torque       |                                    | 0.5Hz, 150%                                          |                              |                                                      |  |                                                               |  |
| Inbuilt PID        |                                    | √                                                    |                              | √                                                    |  | √                                                             |  |
| Keypad             |                                    | Fixed                                                |                              | Fixed                                                |  | Pluggable                                                     |  |
| Display            |                                    | LED                                                  |                              | LED                                                  |  | Double row LED                                                |  |
| Multispeed control |                                    | Up to 16 stages in one cycle                         |                              |                                                      |  |                                                               |  |
| I/O                | DI1-DI4                            | NPN/PNP, Input: 9-30VDC                              |                              | NPN/PNP, Input: 9-30VDC                              |  | NPN/PNP, Input: 9-30VDC                                       |  |
|                    | DI5                                | NPN/PNP, Input: 9-30VDC, Pulse input: max. 50kHz     |                              | NPN/PNP, Input: 0-24VDC, Pulse input: max. 100kHz    |  | NPN/PNP, Input: 9-30VDC, Pulse input: max. 200kHz             |  |
|                    | DO1                                | 9-30VDC, max. 50mA                                   |                              |                                                      |  |                                                               |  |
|                    | DO2                                | 9-30VDC, max. 50mA<br>Pulse output max. 50kHz        |                              |                                                      |  |                                                               |  |
|                    | AI1                                | V: 0-10V<br>I: 0-20mA<br>Resolution: 1/1000          |                              | V: 0-10V<br>I: 0-20mA<br>Resolution: 1/1000          |  | V: 0-10V<br>I: 0-20mA<br>Resolution: 1/1000                   |  |
|                    | AI2                                | V: 0-10V<br>Resolution: 1/1000                       |                              |                                                      |  |                                                               |  |
|                    | AO1                                | V: 0-10V<br>Resolution: 1/1000                       |                              | V: 0-10V<br>I: 0-20mA<br>Resolution: 1/1000          |  | V: 0-10V<br>I: 0-20mA<br>Resolution: 1/1000                   |  |
|                    | AO2                                | V: 0-10V<br>I: 0-20mA<br>Resolution: 1/1000          |                              | —                                                    |  |                                                               |  |
|                    | RO(Ta, Tb, Tc)                     | NO: 24VDC 3A / 250VAC 5A<br>NC: 24VDC 3A / 250VAC 3A |                              |                                                      |  |                                                               |  |
|                    | Inbuilt communication (Max. speed) |                                                      | RS485, Modbus RTU (38.4kbps) |                                                      |  |                                                               |  |
| Options            | Communication                      | —                                                    |                              | —                                                    |  | CANopen, Profibus, DeviceNet, Ethernet/IP, EtherCAT, Profinet |  |
|                    | Extension I/O                      | —                                                    |                              | —                                                    |  | DI/DO/AI/AO/RO/PT100/PT1000                                   |  |
|                    | Extension keypad                   | Support, cable length:2m, 5m                         |                              |                                                      |  |                                                               |  |

General Purpose Variable Speed Drives



| Target Application        |                                   | Small & Simple General Purpose Applications                                                                                                                                                                                                                                              |  | Pumps, Fans and Advanced General Purpose Application                 |  |                                                              |  |
|---------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|--|--------------------------------------------------------------|--|
| Range Name                |                                   | BASIC BA                                                                                                                                                                                                                                                                                 |  | EXPERT XC                                                            |  | EXPERT XS                                                    |  |
| Installation Way          |                                   | Wall mounted, cabinet, din-rail                                                                                                                                                                                                                                                          |  | Wall mounted, cabinet, din-rail                                      |  | Wall mounted, cabinet,flange installation                    |  |
| Dust Shields              |                                   | —                                                                                                                                                                                                                                                                                        |  | Optional                                                             |  | Optional                                                     |  |
| Simple EMC Filter         |                                   | —                                                                                                                                                                                                                                                                                        |  | —                                                                    |  | Built-in (0.7kW-22kW, 200kW- 315kW)<br>Optional (30kW-185kW) |  |
| Braking unit              |                                   | Built-in                                                                                                                                                                                                                                                                                 |  | Built-in                                                             |  | Built-in (<= 18.5kW)                                         |  |
| Environment and standards | Operation temperature             | -10-40 °C no capacity reduction, 40°C -50°C capacity reduction                                                                                                                                                                                                                           |  |                                                                      |  |                                                              |  |
|                           | Humidity                          | ≤90%RH                                                                                                                                                                                                                                                                                   |  |                                                                      |  |                                                              |  |
|                           | Altitude                          | ≤1000m, no capacity reduction                                                                                                                                                                                                                                                            |  |                                                                      |  |                                                              |  |
|                           | IP level                          | IP20                                                                                                                                                                                                                                                                                     |  |                                                                      |  |                                                              |  |
|                           | Standards                         | EN 61800-3: 2004 +A1: 2012 +A1: 2012, EN 55011: 2016+A1: 2017, EN 61000-6-2: 2005, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 61000-4-2: 2009, EN 61000-4-3: 2006+A1: 2008+A2: 2010, EN 61000-4-4: 2012, EN 61000-4-5: 2014, EN 61000-4-6: 2014, EN 61000-4-8: 2010, EN 61000-4-11: 2004 |  |                                                                      |  |                                                              |  |
| Features                  | Velocity ratio                    | 1:100                                                                                                                                                                                                                                                                                    |  |                                                                      |  |                                                              |  |
|                           | Frequency precision               | Digital setting: Max frequency X ±0.01%<br>Analog setting: Max frequency X ±0.2%                                                                                                                                                                                                         |  |                                                                      |  |                                                              |  |
|                           | Frequency resolution              | Digital setting : Max frequency X ±0.01%<br>Analog setting: Max frequency X ±0.1%                                                                                                                                                                                                        |  |                                                                      |  |                                                              |  |
|                           | Torque rise                       | Integrated auto-torque rising function<br>Manual- setting: 0.1%~30.0%                                                                                                                                                                                                                    |  |                                                                      |  |                                                              |  |
|                           | V/F control curve definition      | 4 solution: Linear V/F, Square V/F, V <sup>1/7</sup> /F, V <sup>1/2</sup> /F                                                                                                                                                                                                             |  |                                                                      |  |                                                              |  |
|                           | Acceleration/Deceleration Time    | 4 types of ACC/DEC time selection; optional time unit selection (Min/s); setting range: 0~60hours;                                                                                                                                                                                       |  |                                                                      |  |                                                              |  |
|                           | DC braking                        | Start frequency: 0.00~60.00Hz; braking time: 0.0~30.0s; braking current: 0.0~100%                                                                                                                                                                                                        |  |                                                                      |  |                                                              |  |
|                           | Automatic voltage regulation(AVR) | Can keep the output voltage stable by adjusting PWM output automatically when the input voltage is not stable.                                                                                                                                                                           |  |                                                                      |  |                                                              |  |
|                           | Auto current limitation           | Limits current automatically to avoid tripping from frequent over current.                                                                                                                                                                                                               |  |                                                                      |  |                                                              |  |
|                           | Auto PWM adjustment               | Can adjust the PWM frequency automatically according to the load characteristic                                                                                                                                                                                                          |  |                                                                      |  |                                                              |  |
| Protection                | Prevent mis operation             | —                                                                                                                                                                                                                                                                                        |  | Protect the VSD parameters from change to avoid drives mis operation |  |                                                              |  |
|                           | Protection function               | Over-current, over-voltage, under-voltage, over-heat, over-load, short circuit.                                                                                                                                                                                                          |  |                                                                      |  |                                                              |  |
|                           | Cooling                           | Air- cooling                                                                                                                                                                                                                                                                             |  |                                                                      |  |                                                              |  |



General Purpose Variable Speed Drives

Standard: IEC60947-4



Accessories Selection

| Category                    | Type                                            | Range     | Commercial Reference | Applicable Product                                        | Pictures                                                                              |
|-----------------------------|-------------------------------------------------|-----------|----------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------|
| ADD-ON                      | EMC filter card                                 | EXPERT XS | HAV-XS-4T0370G-FL    | 4T*: 30 - 37kW                                            |    |
|                             |                                                 |           | HAV-XS-4T0550G-FL    | 4T*: 45 - 55kW                                            |                                                                                       |
|                             |                                                 |           | HAV-XS-4T1850G-FL    | 4T*: 75 - 185kW                                           |                                                                                       |
|                             | EtherCAT Card                                   | EXPERT XS | HAV-XS-EtherCAT      | 4T*: 0.75kW - 280kW                                       |    |
|                             | IO extension card with 3 Di and 1 relay         | EXPERT XS | HAV-XS-IO-3DI-R      | 4T*: 0.75kW - 280kW                                       |                                                                                       |
|                             | Standard IO Extension 5 DI, 1 DO, 1 AI, 1 Relay |           | HAV-XS-IO-5DI-AI-R   | 4T*: 0.75kW - 280kW                                       |                                                                                       |
|                             | Profinet Card                                   | EXPERT XS | HAV-XS-Profinet-1    | 4T*: 0.75kW - 280kW                                       |                                                                                       |
| Dust Preventive Accessories | Dust cover                                      | EXPERT XS | HAV-XS-FCB           | 2S*: 0.75 - 2.2kW<br>2T*: 0.75 - 22kW<br>4T*: 0.75 - 22kW |  |
|                             |                                                 | BASIC BA  | HAV-BA-4T0040        | 2S*: 2.2kW<br>4S*: 4kW, 5.5kW                             |                                                                                       |
|                             | Dust Guaze                                      | EXPERT XC | HAV-XC-4T0015-JFZ    | 2S*: 0.75 - 1.5kW<br>2T*: 0.75 - 1.5kW                    |  |
|                             |                                                 |           | HAV-XC-4T0040-JFZ    | 2S*: 2.2kW<br>4T*: 4.0kW                                  |                                                                                       |
|                             |                                                 | EXPERT XS | HAV-XS-4T0075-FSB    | 4T*: 5.5kW , 7.5kW                                        |  |
|                             |                                                 |           | HAV-XS-4T0150-FSB    | 4T*: 11kW, 15kW                                           |                                                                                       |
|                             |                                                 |           | HAV-XS-4T0220-FSB    | 4T*: 18.5kW, 22kW                                         |                                                                                       |
|                             | Dust Sticker                                    | BASIC BA  | HAV-BA-4T0022        | 2S*: 0.75 - 2.2kW<br>4T*: 0.75 - 5.5kW                    |  |
|                             |                                                 | EXPERT XS | HAV-XS-FCT           | 2S*: 0.75 - 2.2kW<br>4T*: 4 - 7.5kW                       |                                                                                       |

2S = 200-240V Single Phase, 2T = 200-240VThree Phase, 4T = 380-440VThree Phase

General Purpose Variable Speed Drives

Standard: IEC60947-4



Accessories Selection

| Category                 | Type                             | Range                           | Commercial Reference | Applicable Product                                          | Pictures                                                                              |
|--------------------------|----------------------------------|---------------------------------|----------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                          |                                  |                                 |                      | XS                                                          |                                                                                       |
| Installation Accessories | Flange-mounting                  | Expert XS                       | HAV-XS-4T0040-QRZJ   | 4T*: 0.75 - 4kW<br>2S*: 0.75 - 2.2KW                        |    |
|                          |                                  |                                 | HAV-XS-4T0075-QRZJ   | 4T*: 5.5 - 7.5kW                                            |                                                                                       |
|                          |                                  |                                 | HAV-XS-4T0150-QRZJ   | 4T*: 11 - 15kW                                              |                                                                                       |
|                          |                                  |                                 | HAV-XS-4T0220-QRZJ   | 4T*: 18.5 - 22kW                                            |                                                                                       |
|                          |                                  |                                 | HAV-XS-4T0370-QRZJ   | 4T*: 30 - 37kW                                              |                                                                                       |
|                          |                                  |                                 | HAV-XS-4T0750-QRZJ   | 4T*: 45 - 75kW                                              |                                                                                       |
|                          |                                  |                                 | HAV-XS-4T1320-QRZJ   | 4T*: 90 - 132kW                                             |                                                                                       |
|                          |                                  |                                 | HAV-XS-4T1600-QRZJ   | 4T*: 160 - 185kW                                            |                                                                                       |
|                          | Wall-mounting                    | Expert XS                       | HAV-XS-4T2200-BGZJ   | 4T*: 200 - 220kW                                            |    |
|                          |                                  |                                 | HAV-XS-4T2800-BGZJ   | 4T*: 250 - 280kW                                            |                                                                                       |
|                          | Floor-standing                   | Expert XS                       | HAV-XS-4T0370-DZ     | 4T*: 30 - 37kW                                              |  |
|                          |                                  |                                 | HAV-XS-4T0750-DZ     | 4T*: 45 - 75kW                                              |                                                                                       |
|                          |                                  |                                 | HAV-XS-4T1100-DZ     | 4T*: 90 - 132kW                                             |                                                                                       |
|                          |                                  |                                 | HAV-XS-4T1600-DZ     | 4T*: 160 - 185kW                                            |                                                                                       |
| Keypad & Accessories     | Keypad bracket                   | Expert XS                       | HAV-XS-JPT           | 2S*: 0.75 - 2.2kW<br>2T*: 4 - 7.5kW<br>4T*: 0.75kW ~ 280kW  |  |
|                          | External Keypad                  | BASIC BA                        | HAV-BA-LKD           | 2S*: 0.75 - 2.2kW<br>4T*: 0.75 - 5.5kW                      |  |
|                          |                                  | EXPERT XC                       | HAV-XC-LKD           | 2S*: 0.40 - 2.2kW<br>4T*: 0.75 - 4.0kW                      |                                                                                       |
|                          |                                  | EXPERT XS                       | HAV-XS-LKD           | 2S*: 0.75 - 22 kW<br>2T*: 4 - 7.5kW<br>4T*: 0.75 - 280kW    |                                                                                       |
|                          | 2m and 5m keypad extension cable | BASIC<br>EXPERT XC<br>Expert XS | HAV-XS-CAB           | 2S*: 0.4 - 2.2 kW<br>2T*: 0.75 - 160kW<br>4T*: 0.75 - 280kW |  |
|                          |                                  |                                 |                      |                                                             |                                                                                       |

2S = 200-240V Single Phase, 2T = 200-240VThree Phase, 4T = 380-440VThree Phase

SMART SOLAR Variable Speed Drives



Range Presentation

Himel SMART SOLAR range variable speed drive (VSD) is dedicated for your solar pumping applications ranging from 0.4kW to 5.5 kW. Himel SMART SOLAR VSD is designed with the focus on essentials in term of both hardware and software to help provide water for people with no access to electric grid at a low cost.

Features

- ◆ High precision solar power regulation (MPPT) algorithm
- ◆ Easy to use menu for fast commissioning
- ◆ Regulates automatically the flow of the pump
- ◆ Auto-stop function if the pump is running dry
- ◆ Compatible with both AC and DC power input
- ◆ Real-time status and parameter display
- ◆ Motor soft-start eliminates water hammer effect
- ◆ Built-in comprehensive protections

Online Content



SMARAT SOLAR

Selection Code

| Series name               | Input                                                                                          | Adaptation                                                                                                                                              | Drive type           |
|---------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>HAVSS</b>              | <b>4T</b>                                                                                      | <b>0007</b>                                                                                                                                             | <b>G</b>             |
| <b>HAVSS:</b> SMART Solar | <b>2:</b> 200-220V<br><b>4:</b> 380V – 440V<br><b>S:</b> Single-phase<br><b>T:</b> Three-phase | <b>0004:</b> 0.4kW<br><b>0007:</b> 0.75kW<br><b>0015:</b> 1.5kW<br><b>0022:</b> 2.2kW<br><b>0037:</b> 3.7kW<br><b>0040:</b> 4.0kW<br><b>0055:</b> 5.5kW | <b>G:</b> Heavy Duty |

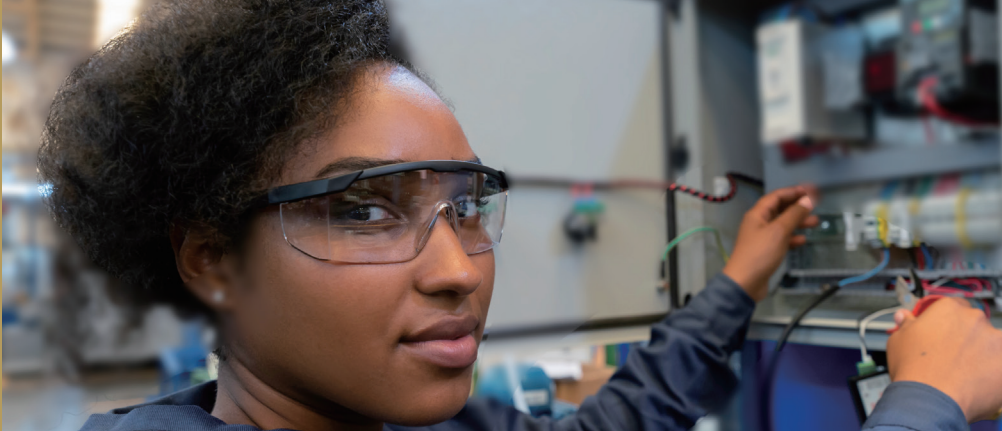
| Technical Parameters     |                            |                                                     |
|--------------------------|----------------------------|-----------------------------------------------------|
| Range name               |                            | SMART SS                                            |
| Target Application       |                            | Solar / Photovoltaic Pumps                          |
| Capacity                 | DC/Single phase AC         | DC: 150V-450V AC: 200V(-10%)-220V(+10%)             |
|                          |                            | 0.4-2.2kW                                           |
|                          | DC/Three phase AC          | DC: 250V-780V AC: 380V(-15%)-440V(+10%)             |
| Frequency                | Input frequency            | 50/60Hz                                             |
|                          | Output frequency           | 0-650Hz                                             |
| Overload capacity        | Heavy Duty                 | 150% for 1min, 180% for 1s, 200% instant protection |
| Control method           | V/f                        | √                                                   |
|                          | Sensor less vector control | √                                                   |
|                          | Eco-mode control           | √                                                   |
| Start torque             |                            | 0.5Hz, 150%                                         |
| Built-in PID             |                            | √                                                   |
| Keypad                   |                            | Fixed                                               |
| Display                  |                            | LED                                                 |
| Multistage speed control |                            | Up to 16 stages in one cycle                        |
| I/O                      | DI1-DI4                    | NPN/PNP, Input: 9-30VDC                             |
|                          | DI5                        | NPN/PNP, Input: 9-30VDC,                            |
|                          |                            | Pulse input: max. 50kHz                             |
|                          | DO1                        | 9-30VDC, max. 50mA                                  |
|                          | DO2                        | 9-30VDC, max. 50mA                                  |
|                          |                            | Pulse output max. 50kHz                             |

SMART SOLAR Variable Speed Drives



| Technical Parameters  |                                                                                 |                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| I/O                   | AI1                                                                             | V: 0-10V                                                                                                          |
|                       |                                                                                 | I: 0-20mA                                                                                                         |
|                       |                                                                                 | Resolution: 1/1000                                                                                                |
|                       | AI2                                                                             | V: 0-10V                                                                                                          |
|                       |                                                                                 | Resolution: 1/1000                                                                                                |
|                       | AO1                                                                             | V: 0-10V                                                                                                          |
|                       |                                                                                 | Resolution: 1/1000                                                                                                |
|                       | AO2                                                                             | V: 0-10V                                                                                                          |
|                       |                                                                                 | I: 0-20mA                                                                                                         |
|                       |                                                                                 | Resolution: 1/1000                                                                                                |
| Relay Output          | NO: 24VDC 3A / 250VAC 5A                                                        |                                                                                                                   |
|                       | NC: 24VDC 3A / 250VAC 3A                                                        |                                                                                                                   |
| Extent the above line |                                                                                 | RS485, Modbus RTU (38.4kbps)                                                                                      |
| Options               | Extension keypad                                                                | Support, cable length:2m, 5m                                                                                      |
| Installation Way      |                                                                                 | Wall mounted, cabinet, Din-rail                                                                                   |
| Braking unit          |                                                                                 | Built-in                                                                                                          |
| Environment           | Operation temperature                                                           | -10-40℃ no derating, 40℃-50℃ derating                                                                             |
|                       | Humidity                                                                        | ≤90%RH                                                                                                            |
|                       | Altitude                                                                        | ≤1000m, no capacity reduction                                                                                     |
|                       | IP level                                                                        | IP20                                                                                                              |
| Features              | Frequency precision                                                             | Digital setting: Max frequency X ±0.01%                                                                           |
|                       |                                                                                 | Analog setting: Max frequency X ±0.2%                                                                             |
|                       | Frequency resolution                                                            | Digital setting: Max frequency X ±0.01%                                                                           |
|                       |                                                                                 | Analog setting: Max frequency X ±0.1%                                                                             |
|                       | Torque rise                                                                     | Integrated auto-torque rising function                                                                            |
|                       |                                                                                 | Manual- setting: 0.1%~30.0%                                                                                       |
|                       | V/F control curve definition                                                    | 4 solution: Linear V/F, Square V/F, V1.7/F, V1.2/F                                                                |
|                       | Acceleration/Deceleration Time                                                  | 4 types of ACC/DEC time selection;<br>optional time unit selection (Min/s);<br>setting range: 0~60hours;          |
|                       | DC braking                                                                      | Start frequency: 0.00~60.00Hz; braking time: 0.0~30.0S;                                                           |
|                       |                                                                                 | braking current: 0.0~100%                                                                                         |
|                       | Automatic voltage regulation(AVR)                                               | Can keep the output voltage stable by adjusting PWM<br>output automatically when the input voltage is not stable. |
|                       | Auto current limitation                                                         | Limits current automatically to avoid tripping from frequent over current.                                        |
| Auto PWM adjustment   | Can adjust the PWM frequency automatically according to the load characteristic |                                                                                                                   |
| Protection            | Protection against mis operation                                                | Protect the VSD parameters from change to avoid drives mis operation                                              |
|                       | Protection function                                                             | Over-current, over-voltage, under-voltage, over-heat, over-load, short circuit.                                   |
|                       | Cooling                                                                         | Air- cooling                                                                                                      |

# PANEL COMPONENTS



## HLAY5 Pushbuttons, Switches and Pilot Lights



HLAY5

Degree of protection: IP40 (IP65 with protective cover)

Material: Plastic/ Metal

Drilling or cut-out for mounting: Ø 22mm

099

## HLAY5CS Control Stations

NEW



HLAY5CS

Compatible with HLAY5 pushbutton and switches Ø 22mm

102

## HLAY7 Pushbuttons, Switches and Pilot Lights



HLAY7

Degree of protection: IP50

Material: Plastic

Drilling or cut-out for mounting: Ø 22/25/30mm

103

## HLD11 Pilot lights



HLD11

Degree of protection: IP65

Step-down type: Resistance/ Capacitance

Specification: AC/DC: 6V/12V/24V/36V/48V/110V/220V/230V/380V

AC: 220V, 230V, 380V

106

## Industrial Plugs & Sockets



HDPM Moving Industrial Plugs



HDP Fixed Industrial Plugs



HDSM Moving Industrial Sockets



HDSF Fixed Industrial Sockets



HDPS Multi-function Plugs and Sockets

107

## HTB Copper Terminal Blocks



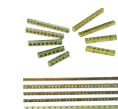
HTB010



HTB019



HTB007



HTB043



HTB112

109

## HCF Cable Connectors



HCF

Thread specification: Metric Standard/ Germany Standard

Material: Nylon 66

Installation: Standard threaded hole

Color: Black/ Grey

112

# PANEL COMPONENTS

## HDIN DIN-Rails



HDIN

Thickness(mm): 1.0

Length: 1000mm,2000mm

Material: Aluminum, Steel

113

## HBK Control Transformers



HBK

Rated voltage up to 1200V

Rated capacity: 25VA~20kVA

115

## HDKUS AC to DC Switch Mode Power Supplies



HDKUS

Rated power: 35W, 50W, 75W, 100W, 150W, 200W, 350W

Output voltage: 5V, 12V, 24V, 36V, 48V

AC input frequency: 47~63Hz

114

HLAY5 Pushbuttons, Switches and Pilot Lights

Standard: IEC 60947-5-1



Range Presentation

HLAY5 is Himel range of Pushbuttons, Switches and Pilot Lights designed to control and indicate the status of the circuit.

Features

- ◆ Compact size, suitable for small cabinet equipment
- ◆ Metal type delivers excellent resistance to mechanical shock and vibration
- ◆ Plastic type provides high resistance to chemical agents
- ◆ Screw clamp terminals allowing fast and easy connection
- ◆ Modular design allows flexible and simple setup for complete products

Online Content



HLAY5

Selection Code

| Range Name                                                                          | Type                                                                                                                         | Color                                                              | Contacts                                           |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------|
| HLAY5                                                                               | BA                                                                                                                           | 4                                                                  | 2                                                  |
|   | HLAY5BA: Metal Flush<br>HLAY5EA: Plastic Flush                                                                               | 1: White<br>2: Black<br>3: Green<br>4: Red<br>5: Yellow<br>6: Blue | 1: 1NO<br>2: 1NC<br>3: 2NO<br>4: 2NC<br>5: 1NO+1NC |
|  | HLAY5BC: Metal Φ40 Mushroom<br>HLAY5EC: Plastic Φ40 Mushroom<br>HLAY5BR: Metal Φ60 Mushroom<br>HLAY5ER: Plastic Φ60 Mushroom | 3: Green<br>4: Red                                                 | 1: 1NO<br>2: 1NC<br>3: 2NO<br>4: 2NC<br>5: 1NO+1NC |
|  | HLAY5BL832: Metal Double-headed flush/flush<br>HLAY5BL842: Metal Double-headed flush/projecting                              | Default:<br>Green and Red                                          | 5: 1NO+1NC                                         |

| Range Name                                                                          | Type                                                                                                                       | Diameter of Push           | Color              | Contacts                                           |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------|----------------------------------------------------|
| HLAY5                                                                               | BS                                                                                                                         | 5                          | 4                  | 2                                                  |
|  | HLAY5BS: Metal Emergency stop pushbuttons, turn to release<br>HLAY5ES: Plastic Emergency stop pushbuttons, turn to release | 4: Φ30<br>5: Φ40<br>6: Φ60 | 3: Green<br>4: Red | 1: 1NO<br>2: 1NC<br>3: 2NO<br>4: 2NC<br>5: 1NO+1NC |

HLAY5 Pushbuttons, Switches and Pilot Lights

Standard: IEC 60947-5-1



Selection Code

| Range Name                                                                          | Type                                                                                                             | Number and Type of Positions                                                       | Contacts                                           |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------|
| HLAY5                                                                               | BD                                                                                                               | 3                                                                                  | 3                                                  |
|  | HLAY5BD: Metal Selector switches with standard handle<br>HLAY5ED: Plastic Selector switches with standard handle | 2: 2p, stay put<br>3: 3p, stay put<br>4: 2p, spring return<br>5: 3p, spring return | 1: 1NO<br>2: 1NC<br>3: 2NO<br>4: 2NC<br>5: 1NO+1NC |
|  | HLAY5BJ: Metal Selector switches with long handle<br>HLAY5EJ: Plastic Selector switches with long handle         |                                                                                    |                                                    |
|  | HLAY5BG: Metal Key switches<br>HLAY5EG: Plastic Key switches                                                     |                                                                                    |                                                    |

| Range Name                                                                            | Type                                                                                                                                                           | Color                                                                                   | Supply Voltage                                   | Contacts                                           | Light Source |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------|--------------|
| HLAY5                                                                                 | BW3                                                                                                                                                            | 3                                                                                       | M                                                | 1                                                  | L            |
|  | HLAY5BW3: Metal Illuminated pushbuttons with flush push<br>HLAY5EW3: Plastic Illuminated pushbuttons with flush push                                           | 1: White<br>3: Green<br>4: Red<br>5: Yellow<br>6: Blue<br>7: Pure white<br>8: Pure blue | T: 6V<br>B: 24V<br>F: 110V<br>M: 220V<br>Q: 380V | 1: 1NO<br>2: 1NC<br>3: 2NO<br>4: 2NC<br>5: 1NO+1NC | L: LED       |
|  | HLAY5BW84: Metal Illuminated pushbuttons with double-headed flush/projecting<br>HLAY5EW84: Plastic Illuminated pushbuttons with double-headed flush/projecting | Default:<br>Green and Red                                                               | T: 6V<br>B: 24V<br>F: 110V<br>M: 220V<br>Q: 380V | 5: 1NO+1NC                                         | L: LED       |

| Range Name                                                                            | Type                       | Supply Voltage                                   | Color                                                                                   | Light Source |
|---------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------|--------------|
| HLAY5                                                                                 | BV                         | M                                                | 3                                                                                       | L            |
|  | HLAY5BV: Metal Pilot light | T: 6V<br>B: 24V<br>F: 110V<br>M: 220V<br>Q: 380V | 1: White<br>3: Green<br>4: Red<br>5: Yellow<br>6: Blue<br>7: Pure white<br>8: Pure blue | L: LED       |



HLAY5 Pushbuttons, Switches and Pilot Lights

Standard: IEC 60947-5-1



Selection Code

| Range Name                                                                        | Type                      | Contacts                                           |
|-----------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|
| HLAY5                                                                             | BE10                      | 1                                                  |
|  | HLAY5BE10: Contact blocks | 1: 1NO<br>2: 1NC<br>3: 2NO<br>4: 2NC<br>5: 1NO+1NC |



| Technical Parameters                   |                    |                 |                                       |    |    |     |     |     |
|----------------------------------------|--------------------|-----------------|---------------------------------------|----|----|-----|-----|-----|
| Range name                             |                    |                 | HLAY5                                 |    |    |     |     |     |
| Usage mode                             |                    |                 | Rated value                           |    |    |     |     |     |
| AC-15                                  | Rated voltage (Ue) | V               | 380                                   |    |    | 220 |     |     |
|                                        | Rated current (Ie) | A               | 2                                     |    |    | 3.3 |     |     |
| DC-13                                  | Rated voltage (Ue) | V               | 220                                   |    |    | 110 |     |     |
|                                        | Rated current (Ie) | A               | 0.5                                   |    |    | 1.1 |     |     |
| Mechanical endurance                   |                    | 10 <sup>5</sup> | 10(Flush, Mushroom, Illuminated type) |    |    |     |     |     |
|                                        |                    |                 | 1(Other types)                        |    |    |     |     |     |
| Electric endurance                     |                    | 10 <sup>5</sup> | AC: 10 / DC: 2 (Flush,Mushroom type)  |    |    |     |     |     |
|                                        |                    |                 | 0.5 (Other types)                     |    |    |     |     |     |
| Rated themal current (Ith)             |                    | A               | 6                                     |    |    |     |     |     |
| Rated impulse withstand voltage (Uimp) |                    | V               | 6000                                  |    |    |     |     |     |
| Degree of protection                   |                    |                 | IP40 (IP65 with protective cover)     |    |    |     |     |     |
| Illuminated pushbutton                 |                    |                 |                                       |    |    |     |     |     |
| Power supplier voltage                 |                    | V               | 6                                     | 12 | 24 | 110 | 220 | 380 |
| LED                                    |                    |                 | √                                     | √  | √  | √   | √   | √   |

Environment

|                   |                        |
|-------------------|------------------------|
| Temperature       | -5°C to +40°C          |
| Relative humidity | ≤50% (40°C) 90% (20°C) |
| Altitude          | ≤2000m                 |
| Pollution degree  | 3                      |

HLAY5CS Control Stations

Standard: IEC 60947-5-1



Range Presentation

HLAY5CS is Himel range of Control Stations designed for auxiliary or direct control of industrial machinery and processes.

Features

- Single-brand solution using Himel control stations and pushbuttons simplifies your choices
- Maximized flexibility
  - Empty control stations for customer assembly
  - Complete control stations with ready-to-use buttons
- Wide offer of pushbuttons and accessories for commonly encountered functions

Online Content



HLAY5CS

Selection Code

| Range name | Type                | Enclosure material | Cut-outs                                                      | Enclosure cover       | Pushbutton Material    | Empty Enclosures/ Complete Stations (Pushbutton Code)                                   |
|------------|---------------------|--------------------|---------------------------------------------------------------|-----------------------|------------------------|-----------------------------------------------------------------------------------------|
| HLAY5      | CS                  | P                  | 1                                                             | 1                     | B                      | A                                                                                       |
| HLAY5      | CS: Control station | P: Plastic         | 1: 1-hole<br>2: 2-hole<br>3: 3-hole<br>4: 4-hole<br>5: 5-hole | 1: White<br>5: Yellow | B: Metal<br>E: Plastic | Default: Empty enclosures<br>A: Flush<br>S: Emergency stop pushbuttons, turn to release |

| Technical Parameters                     |       |                                                                                                                                                                                |  |
|------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Control Stations                         |       | HLAY5CS                                                                                                                                                                        |  |
| Main                                     |       |                                                                                                                                                                                |  |
| Associated control and signaling units   |       | Ø 22 control and signalling units                                                                                                                                              |  |
| Number of cut-outs                       |       | 1, 2, 3, 4 or 5                                                                                                                                                                |  |
| Material                                 |       | ABS                                                                                                                                                                            |  |
| Lid colour                               |       | White or yellow                                                                                                                                                                |  |
| Degree of protection                     |       | IP40 (IP54 with protective cover)                                                                                                                                              |  |
| Function                                 |       | According to equipment fitted: <ul style="list-style-type: none"><li>Start or Stop</li><li>Start-Stop with pilot light</li><li>Motion control</li><li>Emergency stop</li></ul> |  |
| Knockout diameter                        |       | M20(PG13.5)                                                                                                                                                                    |  |
| Complementary                            |       |                                                                                                                                                                                |  |
| Rated insulation voltage (Ui)            |       | 660V                                                                                                                                                                           |  |
| Rated conventional thermal current (Ith) |       | 6A                                                                                                                                                                             |  |
| Rated voltage (Ue)                       |       | 220V/380V                                                                                                                                                                      |  |
| Rated current (Ie)                       | AC-15 | 1.3A/3A                                                                                                                                                                        |  |
|                                          | DC-13 | 0.27A/0.55A                                                                                                                                                                    |  |
| Environment                              |       |                                                                                                                                                                                |  |
| Ambient air temperature for storage      |       | -25 to +70°C                                                                                                                                                                   |  |
| Ambient air temperature for operation    |       | -25 to +70°C                                                                                                                                                                   |  |
| Conformity to standards                  |       | IEC60947-5-1                                                                                                                                                                   |  |



PANEL COMPONENTS

HLAY7 Pushbuttons, Switches and Pilot Lights

Standard: IEC 60947-5-1



Pushbuttons, Switches and Pilot Lights

HLAY7 is Himel range of plastic Pushbuttons, Switches and Pilot lights designed to control and indicate the status of the circuit.

Features

- ◆ Wide choice of heads and cut-outs
- ◆ Stackable modules, flexible to assemble more contacts
- ◆ Anti-rotation plate prevents the pushbutton head from rotation

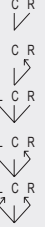
Online Content



HLAY7

Selection Code

| Range Name                                                                          | Type                                                                                                                                            | Contacts                                                | Color                                                              | Drilling or cut-out for mounting |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------|----------------------------------|
| HLAY7                                                                               | BN                                                                                                                                              | 11                                                      | 3                                                                  | 2                                |
|    | HLAY7**BN: Flush, spring return                                                                                                                 | 10: 1NO<br>01: 1NC<br>20: 2NO<br>02: 2NC<br>11: 1NO+1NC | 1: White<br>2: Black<br>3: Green<br>4: Red<br>5: Yellow<br>6: Blue | 2: Ø22<br>3: Ø25<br>4: Ø30       |
|   | HLAY7**BNZS: Flush, push-push<br>HLAY7**GN: Projecting, spring return<br>HLAY7**GNZS: Projecting, push-push<br>HLAY7**JN: Recessed (high guard) |                                                         | 3: Green<br>4: Red                                                 |                                  |
|  | HLAY7**M: Ø 40 Mushroom, spring return<br>HLAY7**MZS: Ø 40 Mushroom, push-push<br>HLAY7**ZS: Ø 40 Emergency stop pushbuttons, turn to release   |                                                         | 3: Green<br>4: Red                                                 |                                  |

| Range Name                                                                          | Type                                                                                                                        | Contacts                                                | Number and Type of Positions                                                                                                                                                                                                                                 | Color                                                 | Drilling or cut-out for mounting |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------|
| HLAY7                                                                               | XB                                                                                                                          | 11                                                      | 20                                                                                                                                                                                                                                                           | 2                                                     | 2                                |
|  | HLAY7**X: Selector switches with standard handle<br>HLAY7**XB: Selector switches with long handle<br>HLAY7**Y: Key switches | 10: 1NO<br>01: 1NC<br>20: 2NO<br>02: 2NC<br>11: 1NO+1NC | 20: 2p, stay put<br>21: 2p, spring return from right to center<br>30: 3p, stay put<br>31: 3p, spring return from right to center<br>33: 3p, spring return to center<br> | 2: Black<br>3: Green<br>4: Red<br>0: for Key switches | 2: Ø22<br>3: Ø25<br>4: Ø30       |

PANEL COMPONENTS

HLAY7 Pushbuttons, Switches and Pilot Lights

Standard: IEC 60947-5-1



Selection Code

| Range Name                                                                          | Type                                                                                             | Contacts                                                | Color                                                                       | Supply Voltage                                   | Drilling or cut-out for mounting | Light Source |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------|----------------------------------|--------------|
| HLAY7                                                                               | DZS                                                                                              | 11                                                      | 4                                                                           | M                                                | 2                                | L            |
|  | HLAY7**D: Illuminated projecting, spring return<br>HLAY7**DZS: Illuminated projecting, push-push | 10: 1NO<br>01: 1NC<br>20: 2NO<br>02: 2NC<br>11: 1NO+1NC | 3: Green<br>4: Red<br>5: Yellow<br>6: Blue<br>7: Pure white<br>8: Pure blue | T: 6V<br>B: 24V<br>F: 110V<br>M: 220V<br>Q: 380V | 2: Ø22<br>3: Ø25<br>4: Ø30       | L: LED       |
|  | HLAY7**DM: Illuminated mushroom, spring return<br>HLAY7**DMZS: Illuminated mushroom, push-push   |                                                         | 3: Green<br>4: Red                                                          |                                                  |                                  |              |

| Range Name                                                                            | Type                                                          | Contacts                                                | Number and Type of Positions (For switches) | Color              | Supply Voltage                                   | Drilling or cut-out for mounting | Light Source |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|--------------------|--------------------------------------------------|----------------------------------|--------------|
| HLAY7                                                                                 | XD                                                            | 11                                                      | 20                                          | 3                  | M                                                | 2                                | L            |
|  | HLAY7**XD: Illuminated selector switches with standard handle | 10: 1NO<br>01: 1NC<br>20: 2NO<br>02: 2NC<br>11: 1NO+1NC | 20: 2p, stay put<br>30: 3p, stay put        | 3: Green<br>4: Red | T: 6V<br>B: 24V<br>F: 110V<br>M: 220V<br>Q: 380V | 2: Ø22<br>3: Ø25<br>4: Ø30       | L: LED       |

| Range Name                                                                            | Type                      | Color                                                                                   | Supply Voltage                                   | Drilling or cut-out for mounting |
|---------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------|
| HLAY7                                                                                 | XD3                       | 4                                                                                       | M                                                | 2                                |
|  | HLAY7XD3: Pilot Light LED | 1: White<br>3: Green<br>4: Red<br>5: Yellow<br>6: Blue<br>7: Pure white<br>8: Pure blue | T: 6V<br>B: 24V<br>F: 110V<br>M: 220V<br>Q: 380V | 2: Ø22                           |

PANEL COMPONENTS

HLAY7 Pushbuttons, Switches and Pilot Lights

Standard: IEC 60947-5-1



Selection Code

| Range Name                                                                        | Type                      | Contacts                                           |
|-----------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|
| HLAY7                                                                             | BE10                      | 1                                                  |
|  | HLAY7BE10: Contact blocks | 1: 1NO<br>2: 1NC<br>3: 2NO<br>4: 2NC<br>5: 1NO+1NC |



| Technical Parameters       |                    |                 |                               |     |     |
|----------------------------|--------------------|-----------------|-------------------------------|-----|-----|
| Pushbuttons and Switches   |                    |                 | HLAY7                         |     |     |
| Usage mode                 |                    |                 | Rated value                   |     |     |
| AC-15                      | Rated voltage (Ue) | V               | 660                           | 380 | 220 |
|                            | Rated current (Ie) | A               | 1.1                           | 2   | 3.3 |
| DC-13                      | Rated voltage (Ue) | V               | 440                           | 220 | 110 |
|                            | Rated current (Ie) | A               | 0.25                          | 0.5 | 1   |
| Mechanical endurance       |                    | 10 <sup>5</sup> | 10 (Flush type), 3 (Switches) |     |     |
|                            |                    |                 | 1 (Push-push type)            |     |     |
| Electric endurance         |                    | 10 <sup>5</sup> | 6 (Flush type), 1 (Switches)  |     |     |
|                            |                    |                 | 0.5 (Push-push type)          |     |     |
| Rated themal current (Ith) |                    | A               | 10                            |     |     |
| Operation frequency        |                    | T/h             | 1200                          |     |     |
| Contact resistance         |                    | mΩ              | ≤50                           |     |     |
| Illuminated pushbutton     |                    |                 | LED                           |     |     |
| Working voltage            |                    | (Ue)V           | 6, 24, 110, 220, 380          |     |     |
| Lifetime                   |                    | h               | ≥3000                         |     |     |

Environment

|                     |                            |
|---------------------|----------------------------|
| Ambient temperature | -5°C~+40°C                 |
| Relative humidity   | ≤ 50% (40°C)    90% (20°C) |
| Altitude            | ≤ 2000m                    |
| Pollution degree    | 3                          |

PANEL COMPONENTS

HLD11 Pilot Lights

Standard: IEC 60947-5-1



Range Presentation

HLD11 is Himel range of Pilot Lights designed for:

- Pilot signal and alarm signal
- Emergency signals and other instructions incidents signals

Features

- ◆ Compact design, all-in-one construction
- ◆ LED light provides long life, low consumption, high brightness
- ◆ IP65 front-of-panel high protection against ingress of solid objects, dust, and water
- ◆ Excellent resistance to mechanical shock and vibration
- ◆ Anti-interference, no improper indication of residual lights

Online Content



HLD11

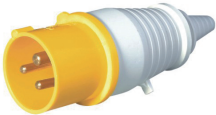
Selection Code

| Range name                                                                           | Drilling or cut-out for mounting | Type                                | Step-down type                            | Shape of head | Rated voltage                                                                                             | Color                                                  |
|--------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|-------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| HLD11                                                                                | 22                               | D                                   | 4                                         | 1             | M                                                                                                         | 4                                                      |
|  | 22: Ø22                          | A: Full cover head & long terminal  | 2: Resistance type<br>4: Capacitance type | 1: Circular   | T: AC/DC 6V<br>J: AC/DC 12V<br>B: AC/DC 24V<br>F: AC/DC 110V<br>M: AC/DC 220V<br>N: AC 230V<br>Q: AC 380V | 7: White<br>3: Green<br>4: Red<br>5: Yellow<br>8: Blue |
|                                                                                      | 22: Ø22                          | B: Half cover head & long terminal  | 2: Resistance type<br>4: Capacitance type | 1: Circular   | T: AC/DC 6V<br>J: AC/DC 12V<br>B: AC/DC 24V<br>F: AC/DC 110V<br>M: AC/DC 220V<br>N: AC 230V<br>Q: AC 380V | 7: White<br>3: Green<br>4: Red<br>5: Yellow<br>8: Blue |
|                                                                                      | 22: Ø22                          | C: Full cover head & short terminal | 2: Resistance type<br>4: Capacitance type | 1: Circular   | T: AC/DC 6V<br>J: AC/DC 12V<br>B: AC/DC 24V<br>F: AC/DC 110V<br>M: AC 220V<br>N: AC 230V<br>Q: AC 380V    | 7: White<br>3: Green<br>4: Red<br>5: Yellow<br>8: Blue |
|                                                                                      | 22: Ø22                          | D: Half cover head & short terminal | 2: Resistance type<br>4: Capacitance type | 1: Circular   | T: AC/DC 6V<br>J: AC/DC 12V<br>B: AC/DC 24V<br>F: AC/DC 110V<br>M: AC 220V<br>N: AC 230V<br>Q: AC 380V    | 7: White<br>3: Green<br>4: Red<br>5: Yellow<br>8: Blue |

| Technical Parameters              |                                                                                                   |                                                      |
|-----------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Pilot Lights                      | HLD11                                                                                             |                                                      |
| Rated voltage                     | AC/DC (Resistance type)<br>A2,B2: 6V,12V,24V,36V,48V,110V,220V,<br>C2,D2: 6V,12V,24V,36V,48V,110V | AC (Capacitance type)<br>A4,B4,C4,D4: 220V,230V,380V |
| Rated current (mA)                | ≤50                                                                                               | ≤20                                                  |
| Working life (H)                  | 30000                                                                                             |                                                      |
| Brightness of light (cd/m²)       | ≥40                                                                                               |                                                      |
| Power frequency withstand voltage | 2500V AC 1min                                                                                     |                                                      |
| Degree of protection              | IP65                                                                                              |                                                      |

Industrial Plugs & Sockets

Standard: IEC 60309-1-2



Range Presentation

HDPM, HDP, HDSM, HDSF, HDPS are Himel ranges of Industrial Plugs and Sockets designed for quick disassembly and assembly of electrical connection.They are mainly used in OEM industry and temporary power supply.

Selection Code

| Range name                                                                                                                    | Pole no                                                                                       | Rated current        | IP         | Rated voltage     | Reference                    |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------|------------|-------------------|------------------------------|
| HDPM                                                                                                                          | 3                                                                                             | 32                   | IP44       | 1                 |                              |
| <b>HDPM:</b> Moving industrial plugs<br>     | 3: 2P+E      | 16: 16A<br>32: 32A   | IP44: IP44 | 1: 110~130V       | HDPM316IP441<br>HDPM332IP441 |
|                                                                                                                               | 4: 3P+E      |                      |            | Default: 230~250V | HDPM316IP44<br>HDPM332IP44   |
|                                                                                                                               | 5: 3P+N+E   |                      |            | Default: 400~415V | HDPM416IP44<br>HDPM432IP44   |
|                                                                                                                               |                                                                                               |                      |            | Default: 230~400V | HDPM516IP44                  |
|                                                                                                                               |                                                                                               |                      |            | Default: 240~415V | HDPM532IP44                  |
|                                                                                                                               | 3: 2P+E    | 63: 63A              | IP67: IP67 | Default: 230~250V | HDPM363IP67                  |
|                                                                                                                               | 4: 3P+E    |                      |            | Default: 400~415V | HDPM463IP67                  |
|                                                                                                                               | 5: 3P+N+E  |                      |            | Default: 230~400V | HDPM563IP67                  |
|                                                                                                                               |                                                                                               |                      |            | Default: 240~415V | HDPM5125IP67                 |
|                                                                                                                               |                                                                                               |                      |            |                   |                              |
| <b>HDP:</b> Fixed industrial plugs<br>     | 3: 2P+E    | 16: 16A<br>32: 32A   | IP44: IP44 | 1: 110~130V       | HDP316IP441<br>HDP332IP441   |
|                                                                                                                               |                                                                                               |                      |            | Default: 230~250V | HDP316IP44<br>HDP332IP44     |
|                                                                                                                               | 4: 3P+E    |                      |            | Default: 400~415V | HDP416IP44<br>HDP432IP44     |
|                                                                                                                               | 5: 3P+N+E  |                      |            | Default: 230~400V | HDP516IP44                   |
|                                                                                                                               |                                                                                               |                      |            | Default: 240~415V | HDP532IP44                   |
|                                                                                                                               | 3: 2P+E    | 63: 63A              | IP67: IP67 | Default: 230~250V | HDP363IP67                   |
|                                                                                                                               | 4: 3P+E    |                      |            | Default: 400~415V | HDP463IP67                   |
|                                                                                                                               | 5: 3P+N+E  |                      |            | Default: 230~400V | HDP563IP67                   |
|                                                                                                                               |                                                                                               |                      |            |                   |                              |
|                                                                                                                               |                                                                                               |                      |            |                   |                              |
| <b>HDSM:</b> Moving Industrial sockets<br> | 3: 2P+E    | 16: 16A<br>32: 32A   | IP44: IP44 | 1: 110~130V       | HDSM316IP441<br>HDSM332IP441 |
|                                                                                                                               |                                                                                               |                      |            | Default: 230~250V | HDSM316IP44<br>HDSM332IP44   |
|                                                                                                                               | 4: 3P+E    |                      |            | Default: 400~415V | HDSM416IP44<br>HDSM432IP44   |
|                                                                                                                               | 5: 3P+N+E  |                      |            | Default: 230~400V | HDSM516IP44                  |
|                                                                                                                               |                                                                                               |                      |            | Default: 240~415V | HDSM532IP44                  |
|                                                                                                                               | 3: 2P+E    | 63: 63A<br>125: 125A | IP67: IP67 | Default: 230~250V | HDSM363IP67<br>HDSM3125IP67  |
|                                                                                                                               | 4: 3P+E    |                      |            | Default: 400~415V | HDSM463IP67<br>HDSM4125IP67  |
|                                                                                                                               | 5: 3P+N+E  |                      |            | Default: 230~400V | HDSM563IP67                  |
|                                                                                                                               |                                                                                               |                      |            | Default: 240~415V | HDSM5125IP67                 |
|                                                                                                                               |                                                                                               |                      |            |                   |                              |

Features

- ◆ Waterproof and dustproof.
- ◆ Long mechanical life and durability

Industrial Plugs & Sockets

Standard: IEC 60309-1-2



|                                                                                                                                          |                                                                                                                                                                                    |                    |                             |                   |                              |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------|-------------------|------------------------------|
| <div>HDSF: Fixed industrial sockets</div> <div></div> | 3: 2P+E <br> | 16: 16A<br>32: 32A | IP44: IP44                  | 1: 110~130V       | HDSF316IP441<br>HDSF332IP441 |
|                                                                                                                                          |                                                                                                                                                                                    |                    |                             | Default: 230~250V | HDSF316IP44<br>HDSF332IP44   |
|                                                                                                                                          |                                                                                                                                                                                    |                    |                             | Default: 400~415V | HDSF416IP44<br>HDSF432IP44   |
|                                                                                                                                          | Default: 230~400V                                                                                                                                                                  |                    |                             | HDSF516IP44       |                              |
|                                                                                                                                          | Default: 240~415V                                                                                                                                                                  |                    |                             | HDSF532IP44       |                              |
|                                                                                                                                          | 63: 63A<br>125: 125A                                                                                                                                                               |                    |                             | IP67: IP67        | Default: 230~250V            |
|                                                                                                                                          |                                                                                                                                                                                    | Default: 400~415V  | HDSF463IP67<br>HDSF4125IP67 |                   |                              |
|                                                                                                                                          |                                                                                                                                                                                    | Default: 230~400V  | HDSF563IP67                 |                   |                              |
|                                                                                                                                          |                                                                                                                                                                                    | Default: 240~415V  | HDSF5125IP67                |                   |                              |

| Range Name                                                                                                                             | Input&output          | Rated current | Rated voltage          | Reference                | Pole no. |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------|------------------------|--------------------------|----------|
| HDPS                                                                                                                                   | 3                     | 16            | 230                    |                          |          |
| <b>HDPS:</b> Multi-function plugs and sockets<br> | 3: 1 Plug & 2 Sockets | 16: 16A       | 230: 230V<br>110: 110V | HDPS316230<br>HDPS316110 | 2P+E     |
|                                                                                                                                        | 4: 1 Plug & 3 Sockets |               | 230: 230V<br>110: 110V | HDPS416230<br>HDPS416110 |          |

| Technical Parameters       |                               |
|----------------------------|-------------------------------|
| Industrial Plugs & Sockets | HDPM, HDP, HDSM, HDSF, HDPS   |
| Connecting type            | Fixed, moving, multi-function |
| Pole                       | 2P+E, 3P+E, 3P+N+E            |
| Voltage                    | 110-415V, 230V                |
| Current                    | 16A, 32A, 63A, 125A           |
| Standard                   | IEC 60309-1-2                 |

Online Content



HDP



HDPM



HDPS



HDSF



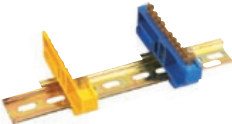
HDSM



PANEL COMPONENTS

HTB Brass Terminal Blocks

Standard: EN 61439-6



Range Presentation

HTB is Himel range of BrassTerminal Blocks designed for distribution box, distribution cabinet, lighting box, etc.

Features

- ◆ Brass with high strength, high hardness, good wear resistance, high carrying capacity, easy wiring, not easy to oxidize
- ◆ Wide choice of thickness and width

Online Content



HTB

Selection Code

| Range name | Type         | Cross section  | Number of holes                                                                                               | *Color of holder     | Reference                                                                                                               | Hole diameter (mm) | Installation dimension (mm) | Overall dimension (mm)                                                                    |
|------------|--------------|----------------|---------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------|-------------------------------------------------------------------------------------------|
| HTB        | 010          | 0609           | W4                                                                                                            | Y                    |                                                                                                                         |                    |                             |                                                                                           |
|            | 010: 010 typ | 0609: 6mm*9mm  | W4: 4 holes<br>W6: 6 holes<br>W8: 8 holes<br>W10: 10 holes<br>W12: 12 holes<br>W14: 14 holes<br>W16: 16 holes | Y: Yellow<br>B: Blue | HTB0100609W4*<br>HTB0100609W6*<br>HTB0100609W8*<br>HTB0100609W10*<br>HTB0100609W12*<br>HTB0100609W14*<br>HTB0100609W16* | 5.2                | 35x7.5                      | 88.5x12.1<br>88.5x12.1<br>88.5x12.1<br>88.5x12.1<br>90.5x12.1<br>103.5x12.1<br>116.5x12.1 |
|            |              | 0812: 8mm*12mm | W4: 4 holes<br>W6: 6 holes<br>W8: 8 holes<br>W10: 10 holes<br>W12: 12 holes<br>W14: 14 holes<br>W16: 16 holes | Y: Yellow<br>B: Blue | HTB0100812W4*<br>HTB0100812W6*<br>HTB0100812W8*<br>HTB0100812W10*<br>HTB0100812W12*<br>HTB0100812W14*<br>HTB0100812W16* | 6                  |                             | 88.5x12.1<br>88.5x12.1<br>88.5x12.1<br>88.5x12.1<br>102.5x12.1<br>117.5x12.1<br>132x12.1  |

| Range name | Type          | Cross section  | Number of holes                                                                                               | *Color of holder    | Reference                                                                                                               | Hole diameter (mm) | Installation dimension (mm)                               | Overall dimension (mm)                                                                       |
|------------|---------------|----------------|---------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------|
| HTB        | 019           | 0609           | W4                                                                                                            | B                   |                                                                                                                         |                    |                                                           |                                                                                              |
|            | 019: 019 type | 0609: 6mm*9mm  | W4: 4 holes<br>W6: 6 holes<br>W8: 8 holes<br>W10: 10 holes<br>W12: 12 holes<br>W14: 14 holes<br>W16: 16 holes | B: Blue<br>G: Green | HTB0190609W4*<br>HTB0190609W6*<br>HTB0190609W8*<br>HTB0190609W10*<br>HTB0190609W12*<br>HTB0190609W14*<br>HTB0190609W16* | 5.2                | 64.5<br>77.5<br>90.5<br>103.5<br>116.5<br>129.5<br>142.5  | 76.5x12.5<br>89.5x12.5<br>102.5x12.5<br>115.5x12.5<br>128.5x12.5<br>141.5x12.5<br>154.5x12.5 |
|            |               | 0812: 8mm*12mm | W4: 4 holes<br>W6: 6 holes<br>W8: 8 holes<br>W10: 10 holes<br>W12: 12 holes<br>W14: 14 holes<br>W16: 16 holes | B: Blue<br>G: Green | HTB0190812W4*<br>HTB0190812W6*<br>HTB0190812W8*<br>HTB0190812W10*<br>HTB0190812W12*<br>HTB0190812W14*<br>HTB0190812W16* | 6                  | 71.5<br>86.5<br>101.5<br>116.5<br>131.5<br>146.5<br>161.5 | 84.5x12.5<br>99.5x12.5<br>114.5x12.5<br>129.5x12.5<br>144.5x12.5<br>159.5x12.5<br>174.5x12.5 |

PANEL COMPONENTS

HTB Brass Terminal Blocks

Standard: EN 61439-6



Selection Code

| Range name | Type          | Cross section  | Number of holes                                                                                | *Color of holder    | Reference                                                                                              | Hole diameter (mm) | Installation dimension (mm) | Overall dimension (mm)                                                        |
|------------|---------------|----------------|------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------|--------------------|-----------------------------|-------------------------------------------------------------------------------|
| HTB        | 007           | 0609           | W6                                                                                             | B                   |                                                                                                        |                    |                             |                                                                               |
|            | 007: 007 type | 0609: 6mm*9mm  | W6: 6 holes<br>W8: 8 holes<br>W10: 10 holes<br>W12: 12 holes<br>W14: 14 holes<br>W16: 16 holes | B: Blue<br>G: Green | HTB0070609W6*<br>HTB0070609W8*<br>HTB0070609W10*<br>HTB0070609W12*<br>HTB0070609W14*<br>HTB0070609W16* | 5.2                | 44.5                        | 58.5x29<br>65.5x29<br>78.5x29<br>91.5x29<br>104.5x29<br>117.5x29              |
|            |               | 0812: 8mm*12mm | W6: 6 holes<br>W8: 8 holes<br>W10: 10 holes<br>W12: 12 holes<br>W14: 14 holes<br>W16: 16 holes | B: Blue<br>G: Green | HTB0070812W6*<br>HTB0070812W8*<br>HTB0070812W10*<br>HTB0070812W12*<br>HTB0070812W14*<br>HTB0070812W16* | 6                  | 52.5                        | 68.5x28.5<br>77.5x28.5<br>92.5x28.5<br>107.5x28.5<br>122.5x28.5<br>137.5x28.5 |

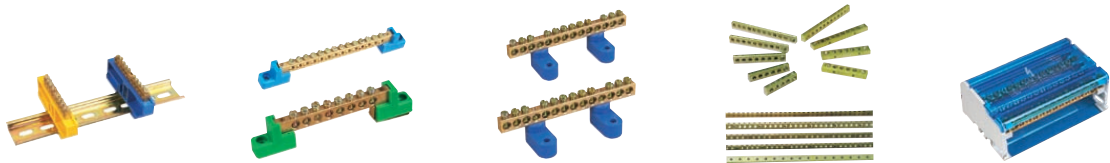
| Range name | Type          | Cross section                                                                                                                          | Number of holes                                                                                                                                                                                             | Reference                                                                                                                                                                        | Hole diameter (mm)                                       | Screw dimension (mm)                                                                |
|------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------|
| HTB        | 043           | 1616                                                                                                                                   | W078                                                                                                                                                                                                        |                                                                                                                                                                                  |                                                          |                                                                                     |
|            | 043: 043 type | 1616: 16x16<br>1414: 14x14<br>1010: 10x10<br>0812: 8x12<br>0810: 8x10<br>0909: 9x9<br>0709: 7x9<br>0808: 8x8<br>0609: 6x9<br>0608: 6x8 | W78: 78 holes<br>W109: 109 holes<br>W116: 116 holes<br>W116: 116 holes<br>W116: 116 holes<br>W116: 116 holes<br>W116: 116 holes<br>W133: 133 holes<br>W133: 133 holes<br>W133: 133 holes<br>W133: 133 holes | HTB0431616W078<br>HTB0431414W109<br>HTB0431010W116<br>HTB0430812W116<br>HTB0430810W116<br>HTB0430909W116<br>HTB0430709W133<br>HTB0430808W133<br>HTB0430609W133<br>HTB0430608W133 | 9<br>7<br>6<br>6.5<br>6<br>5.5<br>5.2<br>5.2<br>5.2<br>5 | M6*12<br>M6*12<br>M5*10<br>M5*10<br>M5*10<br>M5*10<br>M4*10<br>M4*8<br>M4*8<br>M4*8 |

| Range name | Type          | Cross section                                                           | Number of holes                                                               | Reference                                                             | Hole diameter (mm)                                          | Screw dimension (mm)                        |
|------------|---------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------|
| HTB        | 112           | W2                                                                      | P7                                                                            |                                                                       |                                                             |                                             |
|            | 112: 112 type | W2: 2 lines<br>W2: 2 lines<br>W4: 4 lines<br>W4: 4 lines<br>W4: 4 lines | P7: 7 holes<br>P15: 15 holes<br>P7: 7 holes<br>P11: 11 holes<br>P15: 15 holes | HTB112W2P7<br>HTB112W2P15<br>HTB112W4P7<br>HTB112W4P11<br>HTB112W4P15 | 65*45*51<br>132*45*51<br>65*88*51<br>100*88*51<br>132*88*51 | 45xM4<br>112xM4<br>45xM4<br>80xM4<br>112xM4 |

PANEL COMPONENTS

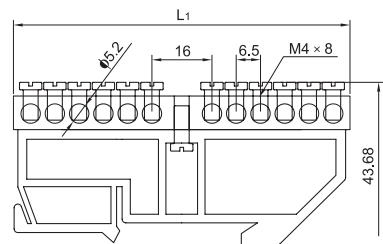
HTB Brass Terminal Blocks

Standard: EN 61439-6

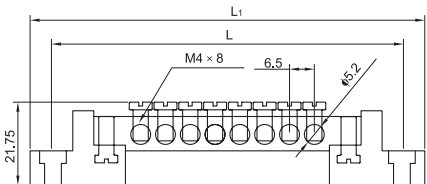


| Technical Parameters |                         |                         |                      |                   |                            |
|----------------------|-------------------------|-------------------------|----------------------|-------------------|----------------------------|
| Type                 | HTB010                  | HTB019                  | HTB007               | HTB043            | HTB112                     |
| Hole                 | 4, 6, 8, 10, 12, 14, 16 | 4, 6, 8, 10, 12, 14, 16 | 6, 8, 10, 12, 14, 16 | 78, 109, 116, 133 | 2x7, 2x15, 4x7, 4x11, 4x15 |
| Hole diameter (mm)   | 5.2, 6                  | 5.2, 6                  | 5.2, 6               | 5, 9              | 5.2                        |
| Screw dimension (mm) | M4*8, M5*10             | M4*8, M5*10             | M4*8, M5*10          | M4*8~M6*12        | M4                         |
| Max current(A)       | 100, 150                | 100, 150                | 100, 150             | 100, 200          | 125                        |

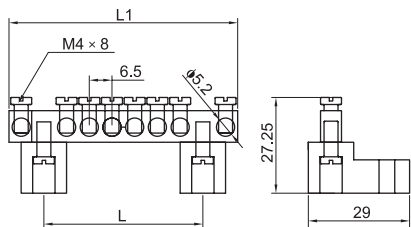
Dimensions



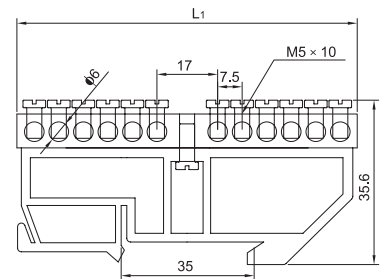
HTB0100609



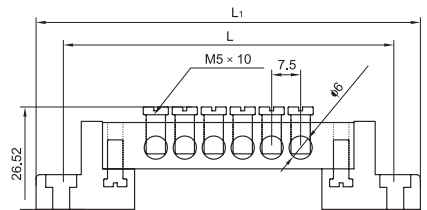
HTB0190609



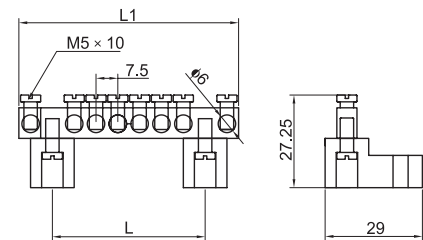
HTB0070609



HTB0100812



HTB0190812



HTB0070812

PANEL COMPONENTS

HCF Cable Connectors

Standard: EN 60947-1



Online Content



HCF

Range Presentation

HCF is Himel range of Cable Connectors designed for fixing cables of control panel, power distribution box, machine, electrical appliance, etc.

Selection Code

| Range name                                                                            | Thread type          | Thread external diameter (mm) | IP      | Color        | Reference     |              | Cable range (mm) | Panel hole (mm) | Thread length (mm) | Spanner size A&F |
|---------------------------------------------------------------------------------------|----------------------|-------------------------------|---------|--------------|---------------|--------------|------------------|-----------------|--------------------|------------------|
| <b>HCF MG 12 IP68 W</b>                                                               |                      |                               |         |              |               |              |                  |                 |                    |                  |
|  | <b>MG:</b><br>Metric | 12:12                         | IP68    | B: Black     | HCFMG12IP68B  | HCFMG12IP68W | 7.6-4.6          | 12.5            | 8.5                | 18/19            |
|                                                                                       |                      | 16:16                         |         | W: Gray      | HCFMG16IP68B  | HCFMG16IP68W | 10-6             | 16.5            | 15                 | 22/22            |
|                                                                                       |                      | 20:20                         |         | HCFMG20IP68B | HCFMG20IP68W  | 14-9         | 20.5             | 15              | 27/27              |                  |
|                                                                                       |                      | 25:25                         |         | HCFMG25IP68B | HCFMG25IP68W  | 18-13        | 25.5             | 15              | 33/33              |                  |
|                                                                                       |                      | 32:32                         |         | HCFMG32IP68B | HCFMG32IP68W  | 25-18        | 33               | 15              | 41/41              |                  |
|                                                                                       |                      | 40: 40                        |         | HCFMG40IP68B | HCFMG40IP68W  | 30-24        | 41               | 20              | 50/50              |                  |
|                                                                                       |                      | 50: 50                        |         | HCFMG50IP68B | HCFMG50IP68W  | 41-30        | 51               | 22              | 62/62              |                  |
|                                                                                       |                      | 63: 63                        |         | HCFMG63IP68B | HCFMG63IP68W  | 51-40        | 64               | 25              | 75/75              |                  |
| <b>PG:</b><br>German                                                                  | 7: 7                 | IP54                          | W: Gray | -            | HCFPG7IP54W   | 7-3.5        | 12.5             | 8               | 17/19              |                  |
|                                                                                       | 9: 9                 |                               |         | -            | HCFPG9IP54W   | 8-4.5        | 15.2             | 8.5             | 22/19              |                  |
|                                                                                       | 11: 11               |                               |         | -            | HCFPG11IP54W  | 10.5-6       | 18.6             | 9               | 24/22              |                  |
|                                                                                       | 13: 13               |                               |         | -            | HCFPG135IP54W | 12.5-7.5     | 20.4             | 9.6             | 27/24              |                  |
|                                                                                       | 16:16                |                               |         | -            | HCFPG16IP54W  | 14-8.5       | 22.5             | 10              | 30/27              |                  |
|                                                                                       | 21: 21               |                               |         | -            | HCFPG21IP54W  | 18-12.5      | 28.3             | 12              | 36/33              |                  |
|                                                                                       | 29: 29               |                               |         | -            | HCFPG29IP54W  | 25-18        | 37               | 15              | 46/41              |                  |
|                                                                                       | 36: 36               |                               |         | -            | HCFPG36IP54W  | 30-23        | 47               | 15              | 57/50              |                  |
|                                                                                       | 42: 42               |                               |         | -            | HCFPG42IP54W  | 39-30        | 54               | 15.5            | 64/62              |                  |
| 48: 48                                                                                | -                    | HCFPG48IP54W                  | 45-35   | 59.3         | 15.5          | 70/65        |                  |                 |                    |                  |

| Technical Parameters              |                                  |
|-----------------------------------|----------------------------------|
| Cable Connectors                  | HCF                              |
| Thread specification              | Metric Standard/ German Standard |
| Material                          | Nylon 66                         |
| Working temperature               | -40°C~+100°C                     |
| Max temperature in short interval | +120°C                           |
| Installation                      | Standard threaded hole           |
| Colour                            | Black & gray                     |

PANEL COMPONENTS

HDIN DIN Rail

Standard: EN 60947-1



Range Presentation

HDIN is Himel range of Din Rails designed to install air switch, contactor and other electrical components.

Online Content



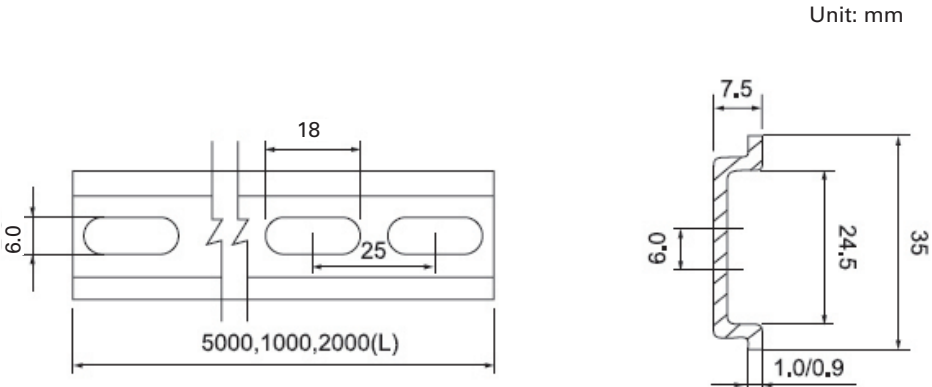
HDIN

Selection Code

| Range Name                               | Material                                  | Length                                     |
|------------------------------------------|-------------------------------------------|--------------------------------------------|
| <b>HDIN</b>                              | <b>02T</b>                                | <b>1000</b>                                |
| <b>HDIN:</b> Thickness (mm) 1.0 DIN Rail | <b>02T:</b> Aluminum<br><b>12T:</b> Steel | <b>1000:</b> 1000mm<br><b>2000:</b> 2000mm |



Overall Dimensions



PANEL COMPONENTS

HDKUS Switch Mode Power Supply

Standard: EN 61558-1, EN 61558-2-16,  
EN 61000-6-2, EN 61000-6-4



Range Presentation

HDKUS is Himel range of Switch Mode Power Supply. It can be widely used in the following fields:

- Industrial control system
- Industrial automation machinery
- Mechanical and electrical equipment
- Electronic instruments
- Household appliances

In those fields, our product is used as the power supply for LED screen, electronic testing equipment, control equipment, radio and television, computer network, medical apparatus and instruments, intelligent monitoring, and many more.

Features

- ◆ 30mm ultra-thin enclosure design
- ◆ Easy to install and light weight
- ◆ Full range of AC input voltage (90-264VAC); high efficiency and small output ripple
- ◆ Low power loss design; less heat consumption; no load power consumption is only 0.2-1.0W
- ◆ High frequency PWM control technology & fast response
- ◆ High power MOSFET driving; stable and reliable operation strong overload ability 100% full load aging test can be passed for all products
- ◆ Complete protection functions: overvoltage protection, overload protection, over-temperature protection, short circuit protection, etc.

Online Content



HDKUS

Selection Code

| Range name   | Rated power                                                                                                                        | Output voltage                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>HDKUS</b> | <b>50</b>                                                                                                                          | <b>12</b>                                                                             |
| <b>HDKUS</b> | <b>35:</b> 35W<br><b>50:</b> 50W<br><b>75:</b> 75W<br><b>100:</b> 100W<br><b>150:</b> 150W<br><b>200:</b> 200W<br><b>350:</b> 350W | <b>05:</b> 5V<br><b>12:</b> 12V<br><b>24:</b> 24V<br><b>36:</b> 36V<br><b>48:</b> 48V |

| Technical Parameters                     |                                                                                                                                         |     |     |      |      |                                        |      |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----|-----|------|------|----------------------------------------|------|
| Switch Mode Power Supply                 | HDKUS                                                                                                                                   |     |     |      |      |                                        |      |
| Rated power                              | 35W                                                                                                                                     | 50W | 75W | 100W | 150W | 200W                                   | 350W |
| AC Input voltage                         | 100-264 V (actual input voltage range: 90-264 V )                                                                                       |     |     |      |      | 85-132 V / 176-264 V (can be switched) |      |
| AC Input frequency                       | 47-63 Hz                                                                                                                                |     |     |      |      |                                        |      |
| Output stability                         | ≤1%                                                                                                                                     |     |     |      |      |                                        |      |
| Load regulation rate                     | ≤1% (standard)                                                                                                                          |     |     |      |      |                                        |      |
| Micro regulation range of output voltage | ±10% (rated output voltage)                                                                                                             |     |     |      |      |                                        |      |
| Ripple and noise                         | ≤1% peak value (100mVp-p standard)                                                                                                      |     |     |      |      |                                        |      |
| Overvoltage protection                   | 110%-140% (protection mode: output is tripped, and it will be recovered automatically when the abnormal condition is eliminated)        |     |     |      |      |                                        |      |
| Overload protection                      | 110%-150% (protection mode: hiccup mode is activated, and it will be recovered automatically when the abnormal condition is eliminated) |     |     |      |      |                                        |      |
| Over-temperature protection              | -                                                                                                                                       |     |     |      |      | 100±5℃                                 |      |
| Output loop                              | Single                                                                                                                                  |     |     |      |      |                                        |      |

PANEL COMPONENTS

# HBK Control Transformers

Standard: IEC61558-2-2



Range Presentation

HBK series is Himel range of AC to AC Voltage Transformers. It is applied to the electrical system of the machine tool and other mechanical equipments which is used as the power supply of the control circuits, lighting circuit, signaling circuits and electronic devices; it also has two or more than two-electrical-isolated – winding transformer.

Features

- ◆ Simple structure and strong anti-seismic capacity
- ◆ High level automation and good product consistency.
- ◆ Good safety performance and high production efficiency
- ◆ Strong load capacity and overvoltage capacity

Online Content



HBK

Selection Code

| Range name | Rated capacity                                                                                                           | Voltage ratio (input/output)                                                                                                                                                                                                                                           | Isolation                                                                                                 | Transformer type                                                                          | Voltage type                                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| HBK        | 100                                                                                                                      | E9                                                                                                                                                                                                                                                                     | G                                                                                                         | M                                                                                         | C                                                                                                                                         |
| HBK        | 00025: 25VA<br>00050: 50VA<br>00060: 60VA<br>00063: 63VA<br>00100: 100VA<br>10000: 10kVA<br>15000: 15kVA<br>20000: 20kVA | D1: 380V/220V<br>D2: 380V/36V<br>D3: 380V/24V<br>D7: 220V/220V<br>D8: 220V/36V<br>D9: 220V/24V<br>D5V: 380V/5V<br>E1: 400V/230V<br>E7: 230V/230V<br>E8: 230V/36V<br>E9: 230V/24V<br>E5V: 230V/5V<br>F1: 240V380V<br>415V/12V24V110V<br>F2: 230V380V415V<br>/12V24V230V | Default:<br>no isolation<br><br>G: isolation: only<br>available when input<br>equals to output<br>voltage | Default: single-input<br>& single-output type<br><br>M: Multi-input &<br>Muti-output type | For Multi-input &<br>Muti-output type,<br>two structures can be<br>selected:<br>C: Center-tapped<br>Winding<br><br>S: Separate<br>Winding |

Note: For customization requirement, please consult us directly

| Technical Parameters  |                    |
|-----------------------|--------------------|
| Control Transformers  | HBK                |
| Rated voltage         | ≤1200V             |
| Rated frequency       | 50Hz, 60Hz         |
| Insulation resistance | ≥5MΩ               |
| Insulation class      | B                  |
| Rated duty            | Uninterrupted Duty |
| Standard              | IEC 61558-2-2      |
| Certificate           | CE                 |

# METERING



HP606 Digital Panel Meters

NEW



HP606

Meter model: Ampermeter, Voltmeter, Combination meter, Multifunction Meter  
Connection type: Single-phase / Three-phase  
Accuracy: class 0.5  
Frequency: 45-65Hz  
Dimension types: 3 types (96, 72, 48)

117

HDTS607 Three-phase Four-wire Watt-hour Meters



HDTS607

Rated current: 1.5(6)A, 2.5(10)A, 5(20)A, 5(30)A, 10(40)A, 15(60)A, 20(80)A, 30(100)A  
Connection type: three-phase Four-wire  
Accuracy: class 1, class 2  
Frequency: 50/60Hz

120

H72 & H96 Panel Meters



H96

H72

Specification: 72x72mm, 96x96mm  
Type: ammeter, voltmeter, frequency meter  
Frequency: 50/60Hz

118

HDDS606 Single-phase Watt-hour Meters



HDDS606

Rated current: 1.5(6)A, 2.5(10)A, 5(20)A, 5(30)A, 10(40)A, 15(60)A, 20(80)A, 30(100)A  
Connection type: single-phase  
Accuracy: class 1, class 2  
Frequency: 50/60Hz

120

HLMK Current Transformers



HLMK

Rated primary current: 30A-5000A  
Rated secondary current: 5A  
Maximum rated voltage: 0.66kV  
Accuracy class: 0.5, 1.0  
Frequency: 50Hz

119



METERING

HP606 Digital Panel Meters

Standard: IEC60051



Range Presentation

HP606 is Himel range of new Digital Meters:

- Applied to power monitoring and panel builder cabinet
- Product types: current, voltage, combination, and ultifunction
- Dimension types: 3 types (96, 72, 48)

Features

- ◆ New design and elegant appearance: material of high permeability plexiglass, LED or LCD display; and wide visual range
- ◆ Accurate metering and reliable performance: high accuracy and resolution ratio; high ability of overloading
- ◆ Four-remote control: teleindication, telecontrol, telemetering, and remote regulating

Online Content



HP606

Selection Code

| Range name                                                                                                                                                     | Input mode   | Panel dimension                                                                                 | Meter structure                                                                                    | Display mode                                                                                                                          | Range                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HP*606                                                                                                                                                         | L            | 72                                                                                              | P                                                                                                  | 1                                                                                                                                     |                                                                                                                                                                                                                                                                                                |
| <b>HPA606:</b> HPA606 Amperemeter<br><b>HPZ606:</b> HPZ606 Voltmeter<br><b>HPD606:</b> HPD606 Combination meter<br><b>HPDM606:</b> HPDM606 Multifunction meter | <b>L:</b> AC | <b>72:</b> 72x72 mm<br><b>96:</b> 96x96 mm<br><b>48:</b> 96x48 mm (only for single-phase meter) | <b>P:</b> Programmable Display Instrument<br><b>K:</b> DO<br><b>T:</b> RS485<br><b>S:</b> DO+RS485 | <b>1:</b> One-row LED display<br><b>4:</b> Three-row LED display<br><b>3Y:</b> Three-phase LCD display (only for multifunction meter) | <b>Voltmeter:</b><br><b>Y:</b> 100V<br><b>O:</b> 600V<br><b>Amperemeter:</b><br><b>5A:</b> Secondary 5A<br><b>1A:</b> Secondary 1A<br><b>Combination &amp; Multifuntion meter:</b><br><b>O5A:</b> 600V5A / O1A: 600V1A<br><b>Y5A:</b> 100V5A / Y1A: 100V1A<br>(Special type can be customized) |

| Technical Parameters   |                                                               |            |                                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Digital Power Meters   |                                                               |            | HP606                                                                                                                                                                                                                               |
| Input                  | Network system                                                |            | Single-phase & Three-phase                                                                                                                                                                                                          |
|                        | Voltage                                                       | Overload   | Continuous: 1.2×Un; Instantaneous: 2×Un for lasting 1s                                                                                                                                                                              |
|                        | Current                                                       | Overload   | Continuous: 1.2×In; Instantaneous: 10×In for lasting 5s                                                                                                                                                                             |
|                        | Frequency                                                     |            | 45~65Hz                                                                                                                                                                                                                             |
| Function module        | Switch output                                                 |            | Output of two-loop passive relay, contact capacity: 3A/30VDC, 3A/250VAC; Values of upper and lower limit alarm, hysteresis can be set as what you want.<br>Output method: remote control (used as switch output) or off-limit alarm |
|                        | Electrical energy pulse                                       |            | Two-loop electrical pulse output                                                                                                                                                                                                    |
|                        | Electrical energy pulse constant                              |            | Active power: 8000imp/kwh      Reactive power: 8000imp/kvarh                                                                                                                                                                        |
|                        | Communication                                                 | Method     | RS485                                                                                                                                                                                                                               |
|                        |                                                               | Protocol   | MODBUS-RTU                                                                                                                                                                                                                          |
|                        |                                                               | Baud rate  | 1200, 2400, 4800, 9600 bps                                                                                                                                                                                                          |
|                        |                                                               | Parity bit | Odd parity, even parity, no parity                                                                                                                                                                                                  |
| Display                | Display mode                                                  |            | (1) Long lifecycle and highlighted LED display;<br>(2) Wide viewing LCD display                                                                                                                                                     |
| Accuracy class         | Voltage, current, frequency, active power, power factor       |            | Class 0.5                                                                                                                                                                                                                           |
|                        | Reactive power                                                |            | Class 1.0                                                                                                                                                                                                                           |
| IP protection          | IP54                                                          |            |                                                                                                                                                                                                                                     |
| Auxiliary power supply | Range                                                         |            | AC220V                                                                                                                                                                                                                              |
|                        | Power consumption                                             |            | < 5VA                                                                                                                                                                                                                               |
| Standard               | IEC 60068-2, IEC 61010-1, IEC 60529, IEC 61000-4, IEC 61557-1 |            |                                                                                                                                                                                                                                     |

METERING

H72 & H96 Panel Metering

Standard: IEC60051



Range Presentation

H72 & H96 series is Himel range of panel meters which provides:

- H72T/H72L & H96T/H96L apply to measure the current, voltage or frequency in the AC circuit
- H72C & H96C apply to measure the current or voltage in the DC circuit
- They are mainly used as indicating instrument for high or low-voltage switch cabinet, power supply cabinet, control cabinet and other electric-control facilities in the AC transmission circuit system.

Features

- ◆ 72\*72mm dimension for H72 series, while 96\*96mm dimension for H96 series;
- ◆ For amperemeter with direct connection, maximum current can reach 50A in AC circuit, while maximum current is 20A in DC circuit;
- ◆ For voltmeter with direct connection, maximum voltage can reach 600V in both AC and DC circuits;
- ◆ Accuracy of amperemeter and voltmeter is class 1.5, and accuracy of frequency meter is class 1.0.

Online Content



H72



H96

Selection Code

| Range name                                                               | Primary Current / Voltage / Frequency                                               | Connection method                                                                      |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| H72                                                                      | 50                                                                                  | A                                                                                      |
| <b>H72TA:</b> H72 AC Amperemeter                                         | <b>5:</b> 5A<br><b>20:</b> 20A<br>...<br><b>5000:</b> 5000A<br><b>10000:</b> 10000A | <b>Default:</b> External transformer connection<br><b>A:</b> Direct connection (1-20A) |
| <b>H96LV:</b> H96 AC Voltmeter                                           | <b>300:</b> 300V<br><b>500:</b> 500V<br><b>600:</b> 600V                            | <b>Default:</b> Direct connection (30-600V)                                            |
| <b>H96CV:</b> H96 DC Voltmeter                                           | <b>300:</b> 300V<br><b>500:</b> 500V<br><b>600:</b> 600V                            | <b>Default:</b> Direct connection (3-600V)                                             |
| <b>H72LHZ:</b> H72 frequency meter<br><b>H96LHZ:</b> H96 frequency meter | 01200V                                                                              |                                                                                        |

Note: CT must be purchased separately for Amperemeter above 20A

| Technical Parameters     |                                                                 |
|--------------------------|-----------------------------------------------------------------|
| Panel Meters             | H72/H96                                                         |
| Standard                 | IEC 60051                                                       |
| Dielectric strength test | Frequency 50/60Hz, Voltage 2000V, duration 1 minute             |
| Impact test              | Maximum acceleration 147m/s <sup>2</sup>                        |
| Response time            | ≤4s                                                             |
| Angular Deflection       | 90°                                                             |
| Temperature              | -25°C~+40°C                                                     |
| Humidity                 | (25%-80%) RH                                                    |
| Environment              | No mildew, insects, salt mist, dew, sand and dust are permitted |
| Installation             | Installed vertically                                            |
| IP Grade                 | IP42                                                            |

HLMK Current Transformers

Standard: IEC60044-1



Range Presentation

HLMK Series is Himel range of Current Transformer, to measure and transform high current to low current

Features

- ◆ 100% pure copper varnished wire
- ◆ Optimized electric conductivity, less power loss and better stability
- ◆ Shell is made of flame retardant PC material
- ◆ Maximum rated voltage is 0.66kV

Online Content



HLMK

Selection Code

| Range name | Maximum rated voltage | Accuracy class                    | Rated primary current                               | Bus-bar dimension                                                                                                                          |
|------------|-----------------------|-----------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| HLMK       | P6                    | P1                                | 30                                                  | 30                                                                                                                                         |
| HLMK       | P6: 0.66kV            | Default: class 0.5<br>P1: class 1 | 30: 30A<br>50: 50A<br>75: 75A<br>...<br>5000: 5000A | 30: 30×10mm<br>40: 40×10mm<br>50: 50×15mm<br>60: 60×20mm<br>80: 80×10mm or 60×30mm<br>100: 100×30mm or 60×40mm<br>120: 120×25mm or 80×30mm |

Rating Table

| Busbar diameter (mm)                | Φ 30 | Φ 40 | Φ 50 | Φ 60 | Φ 80 | Φ 100 | Φ 120 |
|-------------------------------------|------|------|------|------|------|-------|-------|
| Rated primary current to select (A) | 30   |      | 300  | 500  | 600  | 600   |       |
|                                     | 50   | 250  | 400  | 600  | 750  | 800   | 1500  |
|                                     | 75   | 300  | 500  | 750  | 1000 | 1000  | 2000  |
|                                     | 100  | 400  | 600  | 800  | 1200 | 1200  | 2500  |
|                                     | 150  | 500  | 750  | 1000 | 1500 | 1500  | 3000  |
|                                     | 200  |      | 800  | 1200 | 2000 | 2000  | 4000  |
|                                     |      |      | 1000 | 1500 | 2500 | 2500  | 5000  |

| Technical Parameters                      |                                    |
|-------------------------------------------|------------------------------------|
| Current Transformers                      | HLMK                               |
| Rated primary current                     | 30A-5000A                          |
| Rated secondary current                   | 5A                                 |
| Maximum rated voltage                     | 0.66kV                             |
| Accuracy class                            | 0.5, 1.0                           |
| Short time thermal current                | I <sub>th</sub> =100I <sub>h</sub> |
| Security coefficient security coefficient | FS<5                               |
| Standard                                  | IEC 60044-1                        |
| Certificate                               | CE                                 |

HDDS & HDTs Energy Metering

Standard: IEC62053-21



Range Presentation

HDDS606 and HDTs607 are Himel ranges of Energy Meter, which provide:

- Measuring the active energy in the single-phase or three-phase AC power network at frequency of 50Hz or 60Hz
- Measuring the active energy of enterprises, transformer sub-station or power stations, and be used as automatic meters of power transmission and distribution network

Features

- ◆ Different display modes
- ◆ Optional function can be selected: RS485 & infrared

Online Content



HDDS606



HDTs606

Selection Code

| Range name                                                   | Voltage  | Accuracy         | Current specification                                    | Frequency                | Connection                                                                 | Display mode                             | Optional function                                                           |
|--------------------------------------------------------------|----------|------------------|----------------------------------------------------------|--------------------------|----------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------|
| HDDS606                                                      | N        | 1                | 6M4                                                      | 6                        | H                                                                          | CD                                       | 485                                                                         |
| HDDS606:<br>Single-phase Electronic Watt-Hour Meter          | N: 230V  | 1: ±1%<br>2: ±2% | 6M4: 1.5(6)A<br>10M4: 2.5(10)A<br>...<br>100M3: 30(100)A | Default: 50Hz<br>6: 60Hz | H: Connect via VT/CT (only for dial display)<br>Default: Direct connection | CD: LCD display<br>Default: Dial display | 485: 485 interface<br>I: infrared<br>Default: without any optional function |
| HDTs607:<br>Three-phase Four-wire Electronic Watt-Hour Meter | NV: 230V | 1: ±1%<br>2: ±2% | 6M4: 1.5(6)A<br>10M4: 2.5(10)A<br>...<br>100M3: 30(100)A | Default: 50Hz<br>6: 60Hz | H: Connect via VT/CT (only for dial display)<br>Default: Direct connection | Default: Dial display                    | 485: 485 interface<br>I: infrared<br>Default: without any optional function |



| Technical Parameters     |                                                                        |                                                                                       |
|--------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Energy Meters            | HDDS606                                                                | HDTs607                                                                               |
| Connection method        | Single-phase                                                           | Three-phase Four-wire                                                                 |
| Accuracy                 | Class 1, Class 2                                                       |                                                                                       |
| Rated voltage (V)        | 230                                                                    | 3*57.7/100                                                                            |
|                          |                                                                        | 3*220/380                                                                             |
| Current specification    | 1.5(6)A, 2.5(10)A, 5(20)A, 5(30)A, 10(40)A, 15(60)A, 20(80)A, 30(100)A | 3*57.7/100V: 3*1.5(6)A, 3*3(6)A                                                       |
|                          |                                                                        | 3*220/380V: 3*1.5(6)A, 3*3(6)A, 3*5(20)A, 3*10(40)A, 3*15(60)A, 3*20(80)A, 3*30(100)A |
| Display Mode             | Dial or LCD display                                                    | Dial display                                                                          |
| Optional functions       | Infrared communication, 485 communication                              |                                                                                       |
| Normal working voltage   | 0.9-1.1 (Reference voltage)                                            |                                                                                       |
| Ultimate working voltage | 0.8-1.15 (Reference voltage)                                           |                                                                                       |

# VOLTAGE STABILIZERS



## HTND Servo type Voltage Stabilizers



Rated capacity: 0.5~30kVA  
Regulation type: servo motor type

123

## HAVRL Relay type Voltage Stabilizers



Rated capacity: 0.5-10kVA  
Regulation type: relay type

127

## HSVC Servo type wall-mounted Voltage Stabilizers



Rated capacity: 3-10kVA  
Regulation type: servo motor type  
Installation method: wall-mounted

125

## HSJW Three-phase AC Voltage Stabilizers up to 60kVA



Rated capacity: 1.5-60kVA  
Regulation type: servo motor type

129

## HAVRB Relay Type Wall-Mounted Voltage Stabilizer



Rated Capacity: 1-12kVA  
Regulation Type: Relay Type  
Installation Method: Wall-mounted

126

## HSBW Three-phase AC Voltage Stabilizers up to 2000kVA

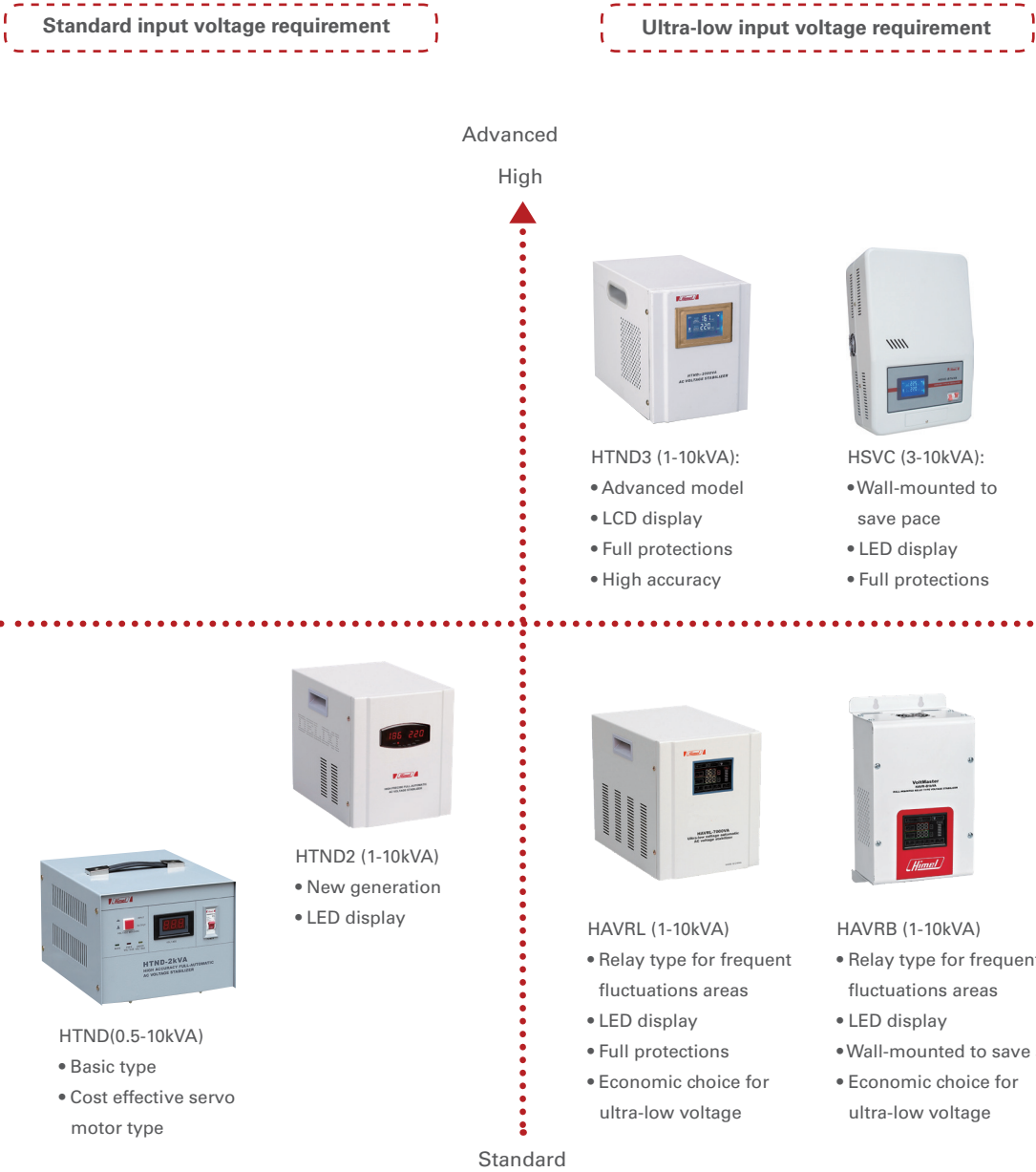


Rated capacity: 10-2000kVA  
Regulation type: servo motor type

130

# VOLTAGE STABILIZERS

## Selection guide for single phase voltage stabilizers



VOLTAGE STABILIZERS

HTND Servo Type Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



Range Presentation

HTND family is Himel range of single-phase servo motor type voltage stabiliers up tp 30kVA with high accuracy and smooth stabilization.

Selection Code

| Range name          | Power rating                                                                                                                                                                          | Connection type                                                                                                                   | Input voltage                                                              | Output voltage                                |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------|
| HTND                | P5                                                                                                                                                                                    | HE                                                                                                                                | I110                                                                       | O220                                          |
| HTND: HTND series   | P5: 0.5kVA<br>1: 1kVA<br>1P5: 1.5kVA<br>2: 2kVA<br>3: 3kVA<br>5: 5kVA<br>7: 7kVA<br>10: 10kVA<br>10G: 10kVA cabinet<br>15G: 15kVA cabinet<br>20G: 20kVA cabinet<br>30G: 30kVA cabinet | HE: Europe plug (1.5kVA)<br><br>HB: British plug<br>(only when capacity ≤ 1.5kVA)<br><br>H: Terminal connect                      | Default: Standard 150-250V<br>I110: Input: 110-250V                        | O220: Output 220V<br><br>O230: Output 230V    |
| HTNDS: HTND2 series | 1: 1kVA<br>1P5: 1.5kVA<br>2: 2kVA<br>3: 3kVA<br>5: 5kVA<br>7: 7kVA<br>10: 10kVA<br>10G: 10kVA cabinet<br>15G: 15kVA cabinet<br>20G: 20kVA cabinet<br>30G: 30kVA cabinet               | HE: Europe plug<br>(only when capacity ≤ 10kVA)<br><br>HB: British plug<br>(only when capacity ≤ 10kVA)<br><br>H:Terminal connect | Default: Standard 140-250V<br>I85: Input: 85-250V<br>I110: Input: 110-250V | Default: Output 220V<br><br>O230: Output 230V |
| HTNDC: HTND3 series | 1: 1kVA<br>1P5: 1.5kVA<br>2: 2kVA<br>3: 3kVA<br>5: 5kVA<br>7: 7kVA<br>10: 10kVA<br>10G: 10kVA cabinet<br>15G: 15kVA cabinet<br>20G: 20kVA cabinet<br>30G: 30kVA cabinet               | HE: Europe plug<br>(only when capacity ≤ 10kVA)<br><br>HB: British plug<br>(only when capacity ≤ 10kVA)<br><br>H:Terminal connect | Default: Standard 140-250V<br>I85: Input: 85-250V<br>I110: Input: 110-250V | Default: Output 220V<br><br>O230: Output 230V |

Note: Additional features are available, please consult us if you want to customized type.

Spare Parts List - For HTND Family

- √ Servo motor
- √ Carbon brush
- √ PCB
- √ Limit switch
- √ Regulating coil
- √ Compensating coil (when capacity ≥15kVA)
- √ Screen

Note: Spare part list above can be provided on request.

VOLTAGE STABILIZERS

HTND Servo Type Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



| Technical Parameters     |                                |                                                                                           |                                                                                                                                               |                                                                            |
|--------------------------|--------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| HTND product series      |                                | HTND                                                                                      | HTND2                                                                                                                                         | HTND3                                                                      |
| Rated Capacity           |                                | kVA                                                                                       | 0.5, 1, 1.5, 2, 3, 5, 7, 10, 15, 20, 30                                                                                                       | 1, 1.5, 2, 3, 5, 7, 10, 15, 20, 30                                         |
| Output voltage           | Accuracy of stabilized voltage | V                                                                                         | 0.5-5kVA: 220 (or 230) ±4%;<br>110 (or 115) ±4%<br>7-30kVA: 220 (or 230) ±4%                                                                  | 1-5kVA: 220 (or 230) ±4%;<br>110 (or 115) ±4%<br>7-30kVA: 220 (or 230) ±4% |
|                          | Undervoltage protection        | V                                                                                         | 184 (or 194) ±4                                                                                                                               |                                                                            |
|                          | Overvoltage protection         | V                                                                                         | 246 (or 256) ±4                                                                                                                               |                                                                            |
| Range of input voltage   |                                | V                                                                                         | 0.5-10kVA: 150-250V<br>15-30kVA: 150-290V                                                                                                     | 1-10kVA: 140-250V<br>15-20kVA: 140-300V<br>30kVA: 155-285V                 |
| Customized input range   |                                | V                                                                                         | 100-240                                                                                                                                       | 85-250                                                                     |
| Cooling mode             |                                | Air cooling can be customized<br>(not for standard product: standard one is self-cooling) |                                                                                                                                               |                                                                            |
| Voltage-regulating speed |                                | s                                                                                         | <1 (variation of input voltage is 10%)                                                                                                        |                                                                            |
| Temperature rise         |                                | K                                                                                         | <80                                                                                                                                           |                                                                            |
| Frequency                |                                | Hz                                                                                        | 50/60                                                                                                                                         |                                                                            |
| Display mode             |                                |                                                                                           | Dial Meter (Panel Meter)                                                                                                                      | LED<br>LCD                                                                 |
| Insulation grade         |                                |                                                                                           | B                                                                                                                                             |                                                                            |
| Insulation resistance    |                                | MΩ                                                                                        | ≥5                                                                                                                                            |                                                                            |
| Withstand voltage        |                                | V/1min                                                                                    | 1500                                                                                                                                          |                                                                            |
| Efficiency               |                                |                                                                                           | 92%                                                                                                                                           |                                                                            |
| Maximum rated current    |                                | A                                                                                         | 2.3 (0.5kVA),4.5 (1kVA), 6.8 (1.5kVA), 9.1 (2kVA), 13.6 (3kVA), 22.7 (5kVA), 31.8 (7kVA), 45.5 (10kVA), 68 (15kVA), 90.9 (20kVA), 136 (30kVA) |                                                                            |
| Certification            |                                |                                                                                           | CE                                                                                                                                            |                                                                            |
| Standard                 |                                |                                                                                           | EN61000-6-2/ EN61000-6-4/EN61558-1                                                                                                            |                                                                            |

Note:

- By-pass is available for 30kVA
- Customization of additional protection on request.



VOLTAGE STABILIZERS

HSVC Servo Type Wall-mounted Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



Range Presentation

HSVC is Himel range of single-phase wall-mounted servo motor type voltage stabilizers up tp 10kVA. It's designed to protect several circuits or appliances and save floor space.

Online Content



HSVCB

Selection Code

| Range name | Power rating                                          | Display                | Input voltage                                                              | Output voltage                            |
|------------|-------------------------------------------------------|------------------------|----------------------------------------------------------------------------|-------------------------------------------|
| HSVCB      | 5                                                     | C                      | I110                                                                       | O230                                      |
| HSVCB      | 3: 3kVA<br>5: 5kVA<br>7: 7kVA<br>8: 8kVA<br>10: 10kVA | Default: LED<br>C: LCD | Default: Standard 140-250V<br>I85: Input: 85-250V<br>I110: Input: 110-250V | Default: Output 220V<br>O230: Output 230V |

Note: Additional features are available, please consult us if you want customized type.

| Technical Parameters                               |                                |          |                                                                                           |                  |
|----------------------------------------------------|--------------------------------|----------|-------------------------------------------------------------------------------------------|------------------|
| High Precise Wall-mounted Type Voltage Stabilizers |                                |          | HSVC                                                                                      |                  |
| Rated Capacity                                     |                                | kVA      | 3~7                                                                                       | 10               |
| Output Voltage                                     | Accuracy of stabilized voltage | V        | 220 (or 230) ±4%;<br>110 (or 115) ±4%                                                     | 220 (or 230) ±4% |
|                                                    | Undervoltage Protection        | V        | 184 (or 194) ±4 (not for standard product) can be customized                              |                  |
|                                                    | Overvoltage protection         | V        | 246 (or 256) ±4                                                                           |                  |
| Range of input voltage                             |                                | V        | 110-250 , 140-150 or 85-250                                                               |                  |
| Standard Function                                  |                                |          | Overload protection   Short circuit protection<br>Output overvoltage protection   By-bass |                  |
| Extended function*                                 |                                | Optional | Fan<br>Input undervoltage protection                                                      |                  |
| Voltage-regulating speed                           |                                | s        | <1 (variation of input voltage is 10%)                                                    |                  |
| Temperature rise                                   |                                | K        | <80                                                                                       |                  |
| Frequency                                          |                                | Hz       | 50/60                                                                                     |                  |
| Display mode                                       |                                |          | LED or LCD                                                                                |                  |
| Insulation resistance                              |                                | MΩ       | ≥5                                                                                        |                  |
| Time delay                                         |                                | min      | 5±4 (not for standard product) can be customized                                          |                  |
| Withstand voltage                                  |                                | V/1min   | 1500                                                                                      |                  |
| Efficiency                                         |                                |          | > 92%                                                                                     |                  |
| Maximum rated current                              |                                | A        | 13.6 (3kVA), 22.7 (5kVA), 31.8 (7kVA), 45.5 (10kVA)                                       |                  |
| Standard                                           |                                |          | EN61000-6-2/ EN61000-6-4/EN61558-1                                                        |                  |
| Certification                                      |                                |          | CE                                                                                        |                  |

\* Please consult us.

Spare Parts List

√ Servo motor   √ Carbon brush   √ PCB   √ Limit switch   √ Relay   √ Regulating coil   √ Screen

VOLTAGE STABILIZERS

HAVRB Relay Type Wall-mounted Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



Range Presentation

HAVRB is Himel range of single-phase wall-mounted relay type voltage stabilizers. It's up to 12kVA. It's designed to protect several circuits or appliances and save floor space.

Online Content



HAVRB

Selection Code

| Range name | Power rating                                                                                            | Input voltage                                                              | Output voltage       |
|------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------|
| HAVRB      | 5                                                                                                       | I110                                                                       | -                    |
| HAVRB      | 1: 1kVA<br>1P5: 1.5kVA<br>2: 2kVA<br>3: 3kVA<br>5: 5kVA<br>7: 7kVA<br>8: 8kVA<br>10: 10kVA<br>12: 12kVA | Default: Standard 140-250V<br>I85: Input: 85-250V<br>I110: Input: 110-250V | Default: Output 220V |

Note: HAVRB only has 220V output. Additional features are available, please consult us for customization.

| Technical Parameters                        |                                |          |                                                                                                                                  |
|---------------------------------------------|--------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------|
| Relay Type Wall-mounted Voltage Stabilizers |                                |          | HAVRB                                                                                                                            |
| Output Voltage                              | Accuracy of stabilized voltage | V        | 220±8%                                                                                                                           |
|                                             | Undervoltage protection        | V        | 184±4                                                                                                                            |
|                                             | Overvoltage protection         | V        | 250±4                                                                                                                            |
| Range of input voltage                      |                                | V        | 14-250, 110-250 or 85-250                                                                                                        |
| Standard Function                           |                                |          | Overload protection<br>Short circuit protection<br>Output overvoltage protection<br>Output undervoltage protection<br>Time delay |
| Extended Function*                          |                                | Optional | Fan   By-pass<br>Input undervoltage protection<br>Temperature rise protection                                                    |
| Voltage-regulating Speed                    |                                | ms       | <10                                                                                                                              |
| Temperature Rise                            |                                | K        | <75 (with rated load)                                                                                                            |
| Frequency                                   |                                | Hz       | 50/60                                                                                                                            |
| Display Mode                                |                                |          | LED                                                                                                                              |
| Insulation Resistance                       |                                | MΩ       | ≥5                                                                                                                               |
| Efficiency                                  |                                |          | >90%                                                                                                                             |
| Maximum Rated Current                       |                                | A        | 1.5 (1kVA), 6.8 (1.5kVA), 9.1 (2kVA), 13.6 (3kVA), 22.7 (5kVA), 31.8 (7kVA), 36.4 (8kVA),<br>45 (10kVA), 54.5 (12kVA)            |
| Standard                                    |                                |          | EN61000-6-2/ EN61000-6-4/EN61558-1                                                                                               |

\* Please consult us.

VOLTAGE STABILIZERS

HAVRL Relay Type Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



Range Presentation

HAVRL is Himel range of single-phase relay type voltage stabilizers. It's up to 10KVA, a cost effective design to answer frequent fluctuations from power grid.

Online Content



HAVRL

Selection Code

| Range name | Power rating                                             | Connection type                     | Input voltage                                    |
|------------|----------------------------------------------------------|-------------------------------------|--------------------------------------------------|
| HAVRL      | P5                                                       | HE                                  | I110                                             |
| HAVRL      | P5: 0.5kVA<br>1: 1kVA<br>1P5: 1.5kVA<br>...<br>10: 10kVA | HE: Europe plug<br>HB: British plug | Default: Input: 85-250V<br>I110: Input: 110-250V |

Note: HAVRL only has 220V output. Additional features are available, please consult us if you want to customized type.

| Technical Parameters                            |                                |                |                                                                                                      |
|-------------------------------------------------|--------------------------------|----------------|------------------------------------------------------------------------------------------------------|
| Ultra-Low Voltage Relay Type Voltage Stabilizer |                                | HAVRL          |                                                                                                      |
| Model                                           |                                | Standard Model | Economic Model                                                                                       |
| Rated capacity                                  |                                | kVA            | 0.5-10                                                                                               |
| Output voltage                                  | Accuracy of stabilized voltage | V              | 220±8%;<br>110±10% (only when capacity is equal or less than 5kVA)                                   |
|                                                 | Overvoltage protection         | V              | 250±4                                                                                                |
| Range of input voltage                          |                                | V              | 85-250<br>110-250 or 140-250                                                                         |
| Customized input range                          |                                | V              | 110-250 or 140-250                                                                                   |
| Extended function*                              |                                | Optional       | By-pass<br>Fan<br>Input undervoltage protection                                                      |
| Power factor                                    |                                | 0.8            | 0.6                                                                                                  |
| Voltage-regulating speed                        |                                | ms             | <10                                                                                                  |
| Temperature rise                                |                                | K              | <75 (with rated load)                                                                                |
| Frequency                                       |                                | Hz             | 50/60                                                                                                |
| Display mode                                    |                                |                | LED                                                                                                  |
| Insulation resistance                           |                                | MΩ             | ≥5                                                                                                   |
| Efficiency                                      |                                |                | >90%                                                                                                 |
| Maximum rated current                           |                                | A              | 2.3 (0.5kVA),4.5 (1kVA), 6.8 (1.5kVA), 9.0 (2kVA), 13.6 (3kVA), 22.7 (5kVA), 31.8 (7kVA), 45 (10kVA) |
| Standard                                        |                                |                | EN61000-6-2/ EN61000-6-4/EN61558-1                                                                   |

\* Please consult us.

Spare Parts List

√ Limit switch    √ Regulating coil    √ Screen

VOLTAGE STABILIZERS

HSJW & HSBW Three-Phase Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



Portfolio For HSJW & HSBW

|                 |                       | HSJW                                             | HSBW                                                                             |
|-----------------|-----------------------|--------------------------------------------------|----------------------------------------------------------------------------------|
| Characteristics | Description           | Three phase full automatic AC voltage stabilizer |                                                                                  |
|                 | Capacity              | 1.5, 3, 4.5, 6, 9, 15, 20, 30, 45, 60kVA         | 10, 15, 30, 50, 100, 150, 200, 250, 300, 400, 500, 600, 800, 1000, 1600, 2000kVA |
|                 | Type                  | Servo motor                                      | Servo motor                                                                      |
|                 | Standard              | EN 61000-6-2,61000-6-4,61558-1                   |                                                                                  |
| Protection      | Certificate           | CE                                               | -                                                                                |
|                 | Overvoltage           | √                                                | √                                                                                |
|                 | Temperature rise      | *                                                | *                                                                                |
|                 | Overload              | *                                                | *                                                                                |
|                 | Undervoltage (output) | *                                                | √                                                                                |
|                 | Short circuit         | √                                                | √                                                                                |
|                 | Time delay            | *                                                | *                                                                                |
|                 | By-pass               | *                                                | *                                                                                |

Note:

◆ "\*" means optional functions for this series, customization available on request.

VOLTAGE STABILIZERS

HSJW Three-Phase Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



Range Presentation

HSJW is Himel range of three-phase servo motor type voltage stabilizers up to 60kVA with high accuracy.

Online Content



HSJW

Selection Code

| Range name | Power rating                                                                                                                 | Shape                                                      | display                                                                                          | Input voltage                                                                           | Output voltage                            |
|------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------|
| HSJW       | 1P5                                                                                                                          | G                                                          | E                                                                                                | I250                                                                                    | O400                                      |
| HSJW       | 1P5: 1.5kVA<br>3: 3kVA<br>4P5: 4.5kVA<br>6: 6kVA<br>9: 9kVA<br>15: 15kVA<br>20: 20kVA<br>30: 30kVA<br>45: 45kVA<br>60: 60kVA | Default: Desktop; Only for 1.5kVA-4.5kVA<br><br>G: Cabinet | Default: Dial meter display<br><br>E: LED display<br><br>MLCD: Multifunction meter (LCD) display | Default: I/260-430V for 1.5-30kVA; I/ 304-456V for 45-60kVA<br><br>I250: Input 250-423V | Default: Output 380V<br>O400: Output 400V |

| Technical Parameters           |                                |          |                                                                                                                                                                                                      |         |
|--------------------------------|--------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Three-Phase Voltage Stabilizer |                                |          | HSJW                                                                                                                                                                                                 |         |
| Rated capacity                 |                                | kVA      | 1.5-30                                                                                                                                                                                               | 45-60   |
| Output voltage                 | Accuracy of stabilized voltage | V        | 380 (or 400) ±4%                                                                                                                                                                                     |         |
|                                | Overvoltage protection         | V        | 425 (or 445) ±7                                                                                                                                                                                      |         |
| Range of input voltage         |                                | V        | 260-430                                                                                                                                                                                              | 304-456 |
| Customized input range         |                                | V        | 250~423                                                                                                                                                                                              |         |
| Extended function*             |                                | Optional | By-pass<br>Fan<br>Input undervoltage protection<br>Output undervoltage protection<br>Overload protection<br>Phase failure protection<br>Temperature rise protection<br>Time delay<br>Surge protector |         |
| Voltage-regulating speed       |                                | s        | <1 (variation of input voltage is 10%)                                                                                                                                                               |         |
| Temperature rise               |                                | K        | <80                                                                                                                                                                                                  |         |
| Ambient temperature            |                                | °C       | -5°C ~+40°C                                                                                                                                                                                          |         |
| Frequency                      |                                | Hz       | 50/60                                                                                                                                                                                                |         |
| Display mode                   |                                |          | Dial Meter (Panel Meter) or LED or LCD                                                                                                                                                               |         |
| Insulation resistance          |                                | MΩ       | ≥5                                                                                                                                                                                                   |         |
| Withstand voltage              |                                | V/1min   | 1500                                                                                                                                                                                                 |         |
| Efficiency                     |                                |          | > 92%                                                                                                                                                                                                |         |
| Maximum rated current          |                                | A        | 2.3(1.5kVA), 4.6(3kVA), 6.8(4.5kVA), 9.1(6kVA), 13.7(9kVA), 22.8(15kVA), 30.4(20kVA), 45.6(30kVA), 68(45kVA), 91(60kVA)                                                                              |         |
| Certification                  |                                |          | CE                                                                                                                                                                                                   |         |
| Standard                       |                                |          | EN61000-6-2/ EN61000-6-4/EN61558-1                                                                                                                                                                   |         |

\* Please consult us.

VOLTAGE STABILIZERS

HSBW Three-Phase Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



Range Presentation

HSBW is Himel range of three-phase servo motor type voltage stabilizers up to 2000kVA with high accuracy.

Online Content



HSBW

Selection Code

| Range name | Power rating                                                                                               | Display                                                                                          | Input voltage                                    | Output voltage                                                                                   |
|------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------|
| HSBW       | 10                                                                                                         | E                                                                                                | I250                                             | O400                                                                                             |
| HSBW       | 10: 10kVA<br>15: 15kVA<br>30: 30kVA<br>50: 50kVA<br>...<br>1000: 1000kVA<br>1600: 1600kVA<br>2000: 2000kVA | Default: Dial meter display<br><br>E: LED display<br><br>MLCD: Multifunction meter (LCD) display | Default: I/ 304-456V<br><br>I250: Input 250~423V | Default: Output 380V<br><br>O400: Output 400V<br><br>O470: Output is 380V when input is 304-470V |

| Technical Parameters                        |                                |          |                                                                                                                                                                    |  |
|---------------------------------------------|--------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Three Phase Compensation Voltage Stabilizer |                                |          | HSBW                                                                                                                                                               |  |
| Rated capacity                              |                                | kVA      | 10-2000                                                                                                                                                            |  |
| Output voltage                              | Accuracy of stabilized voltage | V        | 380 (or 400) ±3%                                                                                                                                                   |  |
|                                             | Undervoltage protection        | V        | 320 (or 340) ±7                                                                                                                                                    |  |
|                                             | Overvoltage protection         | V        | 425 (or 445) ±7                                                                                                                                                    |  |
| Range of input voltage                      |                                | V        | 304-456                                                                                                                                                            |  |
| Customized input range                      |                                | V        | 250-423 or 304-470                                                                                                                                                 |  |
| Extended function*                          |                                | Optional | By-pass<br>Fan<br>Input undervoltage protection<br>Overload protection<br>Phase failure protection<br>Temperature rise protection<br>Time delay<br>Surge protector |  |
| Voltage-regulating speed                    |                                | s        | <1 (variation of input voltage is 10%)                                                                                                                             |  |
| Temperature rise                            |                                | K        | <60                                                                                                                                                                |  |
| Ambient temperature                         |                                | ℃        | -5℃ ~+40℃                                                                                                                                                          |  |
| Frequency                                   |                                | Hz       | 50/60                                                                                                                                                              |  |
| Display mode                                |                                |          | Dial Meter (Panel Meter) or LED or LCD                                                                                                                             |  |
| Insulation resistance                       |                                | MΩ       | ≥5                                                                                                                                                                 |  |
| Withstand voltage                           |                                | V/1min   | 2000                                                                                                                                                               |  |
| Efficiency                                  |                                |          | ≥ 95%                                                                                                                                                              |  |
| Standard                                    |                                |          | EN61000-6-2/ EN61000-6-4/EN61558-1                                                                                                                                 |  |

\* Please consult us.

# HOME ELECTRIC



## Advanced Series Wiring Devices



Robust Light Switches and Sockets

Advanced Series

**British & International** 133  
Device presentation: Complete Mechanism  
Number of gang: Up to 4  
Rate current: 10A / 16A / 20A / 45A

## Prime V2 Series Wiring Devices NEW



Minimalist White Design Switches and Sockets

Prime V2 Series

**British, 2Pin, German & International** 138  
Device presentation: complete mechanism  
Number of Gang: Up to 6  
Rate Current: 10A / 20A / 45A

## Style Series Wiring Devices



Trendy Design, Maximum Impact

Style Series

**2Pin, German & French** 145  
Device presentation: complete mechanism  
Number of gang: Up to 2  
Rate current: 10AX

## Modern Series Wiring Devices



Striking design, quality material and durable construction

Modern Series

**2Pin, German & French** 149  
Number of Gang: Up to 3  
Rated current: 10AX

## Click Series Wiring Devices



Probably the best secret of electricians

Click Series

**2Pin, American, International** 154  
Device presentation: complete mechanism  
Number of gang: up to 4  
Rate current: 10A & 15A

## Click Eco Series Wiring Devices NEW



Timeless design

Click Eco Series

**2Pin, American, International** 160  
Device presentation: plate and module separated  
Number of gang: up to 3  
Rate current: 10A & 15A

## Floor Series Wiring Devices NEW



Best solution for future buildings

Floor Series

**American, International, British** 164  
Euro, 3Pin, 2Pin  
Device presentation: box and module separated  
Number of modules: Up to 6

# HOME ELECTRIC

## Extension Sockets Accessories and Tools NEW



Designed for your comfort

Extension Sockets

Socket Outlet Standard: Euro 168  
Standard: IEC60884  
Cable net length: 1.4M  
Protection level: IP20

## Tool Boxes Accessories and Tools NEW



Enhance the way you work

Tool Boxes

Set: 8 pieces / 18 pieces 169

## Cable Ties Accessories and Tools NEW



The unmissable product for electricians

Cable Ties

Color: Black / White / Colorful 170  
Material: Nylon 66  
Tensile strength (LBS): 18 / 40 / 49  
Max bundle diameter: 22 / 35 / 50 / 65 / 82 / 90

## Electrical Tape Accessories and Tools



Effectively protect your electrical wires

Electrical Tape

Flame retardant material 171  
Available in a range of sizes and colors

## Smart Series Home Accessories NEW



Smart Series

Connected Home made Affordable

Socket Outlet Standard: British, Euro, American 172  
Remote control: Himel APP  
Voice control: Google Home / Amazon Alexa



HOME ELECTRIC

Advanced Series

British Wiring Devices



Range Presentation

Advanced Series is characterized by its smooth shape. Its modern and discrete design will fit in any home, for every applications. With a range of five different finishes, we are making sure that everyone will find a finish to their taste. Made in high quality polycarbonate, Advanced Switches and Sockets are virtually unbreakable. They are tested to comply with the IEC safety standards, ensuring maximum safety and reliability.

Features

- ◆ Two layers product to offer screw-less design
- ◆ Fire Retardant Polycarbonate
- ◆ Tested under 100 degrees
- ◆ >58% Copper for parts made from cold-rolled sheet
- ◆ Middle east: GCC
- ◆ Malaysia: SIRIM
- ◆ Nigeria: SONCAP
- Works with Himel Smart

Selection Code

| Range name         | Functionality                                                | Color                                                                                               |
|--------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>HWDA</b>        | <b>xxx</b>                                                   | <b>C</b>                                                                                            |
| <b>A:</b> Advanced | You may replace XX codes by functionality codes listed Below | <b>Default:</b> White<br><b>C:</b> Cream<br><b>G:</b> Gold<br><b>M:</b> Metallic<br><b>B:</b> Brown |

Online Content



Advanced Series

Color Selection



# ADVANCED SERIES



Easy **Installation**  
Modern **Design**  
Multiple **Functions**

Switches



HWDA1S  
10A 1 Gang 1 Way Switch  
Box: 10  
Carton: 100



HWDA1S2  
10A 1 Gang 2 Way Switch  
Box: 10  
Carton: 100



HWDA1S3  
10A Intermediate Switch  
Box: 10  
Carton: 100



HWDA1PS  
Press Switch  
Box: 10  
Carton: 100



HWDA2S  
10A 2 Gang 1 Way Switch  
Box: 10  
Carton: 100



HWDA2S2  
10A 2 Gang 2 Way Switch  
Box: 10  
Carton: 100

Advanced Series

British Wiring Devices





HWDA3S

10A 3 Gang 1 Way Switch

Box: 10

Carton: 100



HWDA3S2

10A 3 Gang 2 Way Switch

Box: 10

Carton: 100



HWDA4S

10A 4 Gang 1 Way Switch

Box: 10

Carton: 100



HWDA4S2

10A 4 Gang 2 Way Switch

Box: 10

Carton: 100



HWDA1S16

16A 1 Gang 1 Way Switch

Box: 10

Carton: 100



HWDA1S216

16A 1 Gang 2 Way Switch

Box: 10

Carton: 100



HWDA1S316

16A Intermediate Switch

Box: 10

Carton: 100



HWDA2S16

16A 2 Gang 1 Way Switch

Box: 10

Carton: 100



HWDA2S216

16A 2 Gang 2 Way Switch

Box: 10

Carton: 100



HWDA3S16

16A 3 Gang 1 Way Switch

Box: 10

Carton: 100



HWDA3S216

16A 3 Gang 2 Way Switch

Box: 10

Carton: 100



HWDA4S16

16A 4 Gang 1 Way Switch

Box: 10

Carton: 100



HWDA4S216

16A 4 Gang 2 Way Switch

Box: 10

Carton: 100



HWDABS

Bell Switch

Box: 10

Carton: 100



HWDACS

Curtain Switch

Box: 10

Carton: 100



HWDAD3

630W Dimmer

Box: 8

Carton: 80



HWDAD10

1000W Dimmer

Box: 8

Carton: 80



HWD AFC3

230W Fan Controller

Box: 8

Carton: 80

Socket Outlets



HWDA13S

13A Socket

Box: 10

Carton: 100



HWDA13SS

13A Switched Socket

Box: 10

Carton: 100



HWDA13SN

13A Switched Socket with Neon

Box: 10

Carton: 100

Advanced Series

British Wiring Devices





HWDAT13SS

13A Twin Switched  
Socket

Box: 5

Carton: 50



HWDAT13SN

13A Twin Switched  
Socket with Neon

Box: 5

Carton: 50



HWDAT13SND

13A Twin Switched Socket  
with double pole with neon

Box: 5

Carton: 50



HWDAT13USB

13A Socket + 2USB

Box: 8

Carton: 80



HWDA15SS

15A Switched Socket

Box: 10

Carton: 100



HWDAT15SN

15A Switched Socket with  
Neon

Box: 10

Carton: 100



HWDAUS

13A Universal Socket

Box: 10

Carton: 100



HWDAUSUSB

13A Universal Socket + 2USB

Box: 8

Carton: 80



HWDA20S

1 Gang 20A DP Switch

Box: 10

Carton: 100



HWDA45S

1 Gang 45A DP Switch

Box: 10

Carton: 100



HWDA45ST

1 Gang 45A DP Switch  
(146 Type)

Box: 5

Carton: 50

Telecommunication Accessories



HWDA45C

45A Technical Connector

Box: 10

Carton: 100



HWDA1TS

RJ11 Telephone Socket

Box: 10

Carton: 100



HWDA2TS

2 RJ11 Telephone Socket

Box: 10

Carton: 100



HWDA1DS

RJ45 Data Socket

Box: 10

Carton: 100



HWDA2DS

2 RJ45 Data Socket

Box: 10

Carton: 100



HWDA1SS

Satellite Socket

Box: 10

Carton: 100



HWDA1S1T

Satellite + RJ11 Tel Socket

Box: 10

Carton: 100



HWDASTS

Sensitive Time Switch

Box: 8

Carton: 80



HWDAB

Blank Plate

Box: 20

Carton: 200

Advanced Series

British Wiring Devices



HWDA13FCU  
13A Fused Connection Unit  
Box: 10  
Carton: 100

Future Ready

Upgrade your Advanced Series switches with our WIFI Smart modules



HHESM  
Smart Switch Module  
Box: 1  
Carton: 100



HHE2SM  
2 Gang Switch Module  
Box: 1  
Carton: 100



HHESD  
Smart Dimmer Module  
Box: 1  
Carton: 100



HHE2SD  
2 Gang Dimmer Module  
Box: 1  
Carton: 100



Prime V2 Series

British Wiring Devices



Range Presentation

Prime V2 series is designed for a wide range of applications in various industries: Residential, Commercial buildings, Offices and Hotels etc. It is available in more than 100 functionalities. This range is available in a classic white finish and with a sleek, elegant apperance. All products use high-quality raw material and ensure maximum safety and reliability.

Features

- ◆ Up to 6 Gangs
- ◆ Complete Hotel offer
- ◆ USB enabled sockets
- ◆ 4mm diameter silver contact
- ◆ 1.5mm metal plate
- ◆ Smartphone holders available
- ◆ Works with Himel Smart

Selection Code

| Range name                                                                                                                             | Functionality                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| HDWP                                                                                                                                   | XXX                                                                 |
| <p><b>A:</b> Advanced<br/><b>S:</b> Style<br/><b>M:</b> Modern<br/><b>C:</b> Click<br/><b>CE:</b> Click Eco<br/><b>P:</b> Prime V2</p> | <p>You may replace XX codes by functionality codes listed below</p> |

Online Content



Prime V2



# PRIME SERIES



Elevate the **Basics**  
Minimalist **Design**  
Complete set of  
**Products**



## Switches



HWDPS1G1W  
16A 1 Gang 1 Way Switch  
Box: 10  
Carton: 100



HWDPS1G2W  
16A 1 Gang 2 Way Switch  
Box: 10  
Carton: 100



HWDPS2G1W  
16A 2 Gang 1 Way Switch  
Box: 10  
Carton: 100



HWDPS2G2W  
16A 2 Gang 2 Way Switch  
Box: 10  
Carton: 100



HWDPS3G1W  
16A 3 Gang 1 Way Switch  
Box: 10  
Carton: 100



HWDPS3G2W  
16A 3 Gang 2 Way Switch  
Box: 10  
Carton: 100

## HOME ELECTRIC

### Prime V2 Series

British Wiring Devices



HWDPS4G1W  
16A 4 Gang 1 Way Switch  
Box: 10  
Carton: 100



HWDPS4G2W  
16A 4 Gang 2 Way Switch  
Box: 10  
Carton: 100



HWDPS5G1W  
16A 5 Gang 1 Way Switch  
Box: 10  
Carton: 100



HWDPS6G1W  
16A 6 Gang 1 Way Switch  
Box: 10  
Carton: 100



HWDPSDB  
Doorbell Switch  
Box: 10  
Carton: 100



HWDPB1G1W  
16A 1 Gang 1 Way Switch,  
Big Button  
Box: 10  
Carton: 100



HWDPB1G2W  
16A 1 Gang 2 Way Switch,  
Big Button  
Box: 10  
Carton: 100



HWDPB2G1W  
16A 2 Gang 1 Way Switch,  
Big Button  
Box: 10  
Carton: 100



HWDPB2G2W  
16A 2 Gang 2 Way Switch,  
Big Button  
Box: 10  
Carton: 100



HWDPB3G1W  
16A 3 Gang 1 Way Switch,  
Big Button  
Box: 10  
Carton: 100



HWDPB3G2W  
16A 3 Gang 2 Way, Big Button  
Box: 10  
Carton: 100



HWDPB4G1W  
16A 4 Gang 1 Way Switch,  
Big Button  
Box: 10  
Carton: 100



HWDPB4G2W  
16A 4 Gang 2 Way Switch,  
Big Button  
Box: 10  
Carton: 100



HWDPBDB  
Doorbell Switch, Big Button  
Box: 10  
Carton: 100



HWDP20A  
20A Switch With Neon  
Box: 10  
Carton: 100



HWDP45A  
45A Switch With Neon  
Box: 10  
Carton: 100

## Dimmers



HWDPFS3  
Fan Speed 300W  
Box: 8  
Carton: 80



HWDPFS5  
Fan Speed 500W  
Box: 8  
Carton: 80



HWDPD3  
Light Dimmer 300W  
Box: 8  
Carton: 80



Prime V2 Series

British Wiring Devices





HWDP15SS

15A Switched Socket With Neon

Box: 10

Carton: 100



HWDP15SS

15A Switched Socket With Neon

Box: 10

Carton: 100



HWDP15SS

15A Switched Socket With Neon

Box: 10

Carton: 100



HWDP15SS

15A Switched Socket With Neon

Box: 10

Carton: 100



HWDP15SS

15A Switched Socket With Neon

Box: 10

Carton: 100

Socket Outlets



HWDP13AS

13A Socket

Box: 10

Carton: 100



HWDP13ASS

13A Switched Socket

Box: 10

Carton: 100



HWDP13ASSN

13A Switched Socket With Neon

Box: 10

Carton: 100



HWDP13ASSN2USB

13A Switched Socket + 2USB

Box: 8

Carton: 80



HWDP13ASSN2USB

13A Switched Socket + 2USB

Box: 8

Carton: 80



HWDP13ASSN2USB

13A Switched Socket + 2USB

Box: 8

Carton: 80



HWDP13ASSN2USB

13A Switched Socket + 2USB

Box: 8

Carton: 80



HWDP13ASSN2USB

13A Switched Socket + 2USB

Box: 8

Carton: 80



HWDP13ASSN2USB

13A Switched Socket + 2USB

Box: 8

Carton: 80



HWDP13ASSN2USB

13A Switched Socket + 2USB

Box: 8

Carton: 80



HWDP13ASSN2USB

13A Switched Socket + 2USB

Box: 8

Carton: 80



HWDP13ASSN2USB

13A Switched Socket + 2USB

Box: 8

Carton: 80



HWDP13ASSN2USB

13A Switched Socket + 2USB

Box: 8

Carton: 80



HWDP13ASSN2USB

13A Switched Socket + 2USB

Box: 8

Carton: 80



HWDP13ASSN2USB

13A Switched Socket + 2USB

Box: 8

Carton: 80

Prime V2 Series

British Wiring Devices





HWDP5PSSN

13A 5Pin MF Switched Socket With Neon

Box: 10

Carton: 100



HWDP5PSSN2USB

13A 5Pin MF Switched Socket With Neon + 2USB

Box: 8

Carton: 80

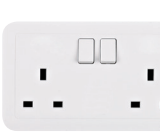


HWDP5PSSN2USB

13A 5Pin MF Switched Socket With Neon + 2USB

Box: 8

Carton: 80



HWDP213ASS

2X13A Switched Socket

Box: 5

Carton: 50



HWDP213ASSN

2X13A Switched Socket With Neon

Box: 5

Carton: 50



HWDP213ASSN2USB

2X13A Switched Socket With Neon + 2USB

Box: 5

Carton: 50



HWDP2MFS

2X13A 5Pin MF Switched Socket

Box: 5

Carton: 50



HWDP2MFSN

2X13A 5Pin MF Switched Socket With Neon

Box: 5

Carton: 50



HWDP2MFSN2USB

2X13A 5Pin MF Switched Socket With Neon + 2USB

Box: 5

Carton: 50



HWDPEUR

16A Europe Socket

Box: 10

Carton: 100



HWDPEUR

16A Europe Socket

Box: 10

Carton: 100



HWDPEUR

16A Europe Socket

Box: 10

Carton: 100



HWDPEUR

16A Europe Socket

Box: 10

Carton: 100



HWDPEUR

16A Europe Socket

Box: 10

Carton: 100



HWDPEUR

16A Europe Socket

Box: 10

Carton: 100



HWDPEUR

16A Europe Socket

Box: 10

Carton: 100



HWDPEUR

16A Europe Socket

Box: 10

Carton: 100



HWDPEUR

16A Europe Socket

Box: 10

Carton: 100



HWDPEUR

16A Europe Socket

Box: 10

Carton: 100



HWDPEUR

16A Europe Socket

Box: 10

Carton: 100



HWDPEUR

16A Europe Socket

Box: 10

Carton: 100



HWDPEUR

16A Europe Socket

Box: 10

Carton: 100



HWDPEUR

16A Europe Socket

Box: 10

Carton: 100

Prime V2 Series

British Wiring Devices



Accessories



HWDP45AO  
45A outlet  
Box: 10  
Carton: 100



HWDPHS3  
Shaver 3X3  
Box: 6  
Carton: 60



HWDPHS6  
Shaver 3X6  
Box: 3  
Carton: 30



HWDPBP3  
Blank Plate 3X3  
Box: 20  
Carton: 200



HWDPBP6  
Blank Plate 6X6  
Box: 10  
Carton: 100



HWDPTV  
TV Socket  
Box: 10  
Carton: 100



HWDP2TV  
DoubleTV Socket  
Box: 10  
Carton: 100



HWDPTel  
Tel Socket  
Box: 10  
Carton: 100



HWDPCom  
Computer Socket  
Box: 10  
Carton: 100



HWDP2Tel  
DoubleTel Socket  
Box: 10  
Carton: 100



HWDP2Com  
Double Computer Socket  
Box: 10  
Carton: 100



HWDPComTel  
Computer+Tel Socket  
Box: 10  
Carton: 100



HWDPTVtel  
TV+Tel Socket  
Box: 10  
Carton: 100



HWDPSAT  
Satellite Socket  
Box: 10  
Carton: 100



HWDPSATtel  
Satellite + Tel Socket  
Box: 10  
Carton: 100



HWDPSATTV  
Satellite + TV Socket  
Box: 10  
Carton: 100



HWDP20AO  
20A outlet  
Box: 10  
Carton: 100

Hotel Accessories



HWDPTD  
Touch Delay Switch  
(With Energy Saving)  
Box: 8  
Carton: 80



HWDPVC  
Voice Control Switch  
(With Energy Saving)  
Box: 8  
Carton: 80



HWDPVC3L  
Voice Control With Fire  
Protection And Energy  
Saving (Three Line)  
Box: 8  
Carton: 80

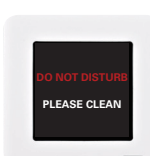
Prime V2 Series

British Wiring Devices





HWDPVC4L  
Voice Control With Fire  
Protection And Energy  
Saving (Four Line)  
Box: 8  
Carton: 80



HWDPHDND  
Doorbell Switch With Do  
Not Disturb  
Box: 10  
Carton: 100



HWDPHDNDI  
Do Not Disturb Inside Switch  
Box: 10  
Carton: 100



HWDPHB  
Human Body Sensor Switch  
Box: 8  
Carton: 80



HWDPHBF  
Human Body Sensor Switch  
With Fire Protection  
Function  
Box: 8  
Carton: 80



HWDPHKC  
Insert Card For Power (Three  
Line) 40A  
Box: 6  
Carton: 60



HWDPHKCLF  
Insert Card For Power ( Induction  
Type, Low Frequency) 40A  
Box: 6  
Carton: 60



HWDPHKCHF  
Insert Card For Power ( Induction  
Type, High Frequency) 40A  
Box: 5  
Carton: 60



HWDPPh  
Stick Style Phone Holder  
Box: 18  
Carton: 180



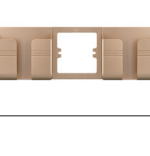
HWDPPhG  
Stick Style Phone Holder Gold  
Box: 18  
Carton: 180



HWDPPhS  
Phone Holder-Single  
Box: 20  
Carton: 200



HWDPPhSG  
Phone Holder-Single Gold  
Box: 20  
Carton: 200



HWDPPhDG  
Phone Holder-Double Gold  
Box: 10  
Carton: 100

Future Ready

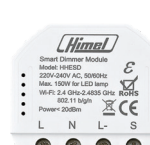
Upgrade your Prime Series switches with our WIFI Smart modules



HHESM  
Smart Switch Module  
Box: 1  
Carton: 100



HHE2SM  
2 Gang Switch Module  
Box: 1  
Carton: 100



HHESD  
Smart Dimmer Module  
Box: 1  
Carton: 100



HHE2SD  
2 Gang Dimmer Module  
Box: 1  
Carton: 100





Style Series

European Wiring Devices



Range Presentation

Style Series is characterized by its rounded shape and shiny effect. Its modern and discrete design will fit in any home, for every application. Made of high quality polycarbonate, our plastic frames won't turn yellow overtime. Enhance the ambiance of your home by playing with our different finishes: classic white design, gold and metallic for something which stands out or wood for a natural look at home.

Features

- ◆ 31 functionalities
- ◆ One synthetic finish, two metallic finishes and one natural finish
- ◆ All sockets available with shutters to prevent accidents
- ◆ Tested under more than 10years of normal usage
- ◆ Protected claws to prevent hand injuries during installation
- ◆ Base in polyamide for a better performance on mechanical strenght, preventing burn and dripped phenomenon
- ◆ USB Socket available in exclusivity!
- ◆ Indonesia: SNI

Selection Code

| Range name                                                                                                                 | Functionality                                                | Color                                                                           |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>HWDS</b>                                                                                                                | <b>xxx</b>                                                   | <b>G</b>                                                                        |
| <b>A:</b> Advanced<br><b>S:</b> Style<br><b>M:</b> Modern<br><b>C:</b> Click<br><b>CE:</b> Click Eco<br><b>P:</b> Prime V2 | You may replace XX codes by functionality codes listed below | <b>Default:</b> White<br><b>G:</b> Gold<br><b>M:</b> Metallic<br><b>W:</b> Wood |

Online Content



Style Series

Color Selection



STYLE  
SERIES



Cost **Effective**  
Maximum **Performance**  
Simply **Beautiful**

Switches



HWDS1S  
1 Gang 1 Way Switch  
Box: 10  
Carton: 120



HWDS1S2  
1 Gang 2 Way Switch  
Box: 10  
Carton: 120



HWDS2S  
2 Gang 1 Way Switch  
Box: 10  
Carton: 120



HWDS2S2  
2 Gang 2 Way Switch  
Box: 10  
Carton: 120



HWDS1SL  
1 Gang 1 Way Switch with LED  
Box: 10  
Carton: 120



HWDS2SL  
2 Gang 1 Way Switch with LED  
Box: 10  
Carton: 120



Style Series

European Wiring Devices





HWDSPB

Push Button

Box: 10

Carton: 120



HWDSBS

Bell Switch

Box: 10

Carton: 120



HWDS1

1 Gang Light Dimmer

Box: 8

Carton: 96



HWDSLED

LED Dimmer

Box: 8

Carton: 96

Socket Outlet



HWDS2P

1 Gang 2Pin Socket

Box: 10

Carton: 120



HWDS2PS

1 Gang 2Pin Socket with shutters

Box: 10

Carton: 120



HWDST2P

2 Gang 2Pin Socket

Box: 7

Carton: 84



HWDST2PS

2 Gang 2Pin Socket with shutters

Box: 7

Carton: 84



HWDSS

1 Gang Schuko Socket

Box: 10

Carton: 120



HWDSSS

1 Gang Schuko Socket with shutters

Box: 10

Carton: 120



HWDSTS

2 Gang Schuko Socket

Box: 6

Carton: 72



HWDSTSS

2 Gang Schuko Socket with shutters

Box: 6

Carton: 72



HWDSSC

1 Gang Schuko Socket with cover

Box: 10

Carton: 120



HWDSSCS

1 Gang Schuko Socket with coverwith shutters

Box: 10

Carton: 120



HWDIFS

1 Gang French Socket

Box: 10

Carton: 120



HWDIFS

1 Gang French Socket with shutters

Box: 10

Carton: 120



HWDSUSB

1 Gang Schuko Socket with 2 USB

Box: 8

Carton: 96

Style Series

European Wiring Devices



Telecommunication Accessories



HWDSC

1 Gang Data Socket

Box: 10

Carton: 120



HWDSC2

2 Gang Data Socket

Box: 10

Carton: 120



HWDST

1 Gang RJ11 Tel Socket

Box: 10

Carton: 120



HWDST2T

2 Gang RJ11 Tel Socket

Box: 10

Carton: 120



HWDSTV

1 Gang Isolated TV Socket

Box: 10

Carton: 120



HWDSSA

1 Gang Satellite Socket

Box: 10

Carton: 120



HWDSTVS

2 Gang TV + Satellite Socket

Box: 10

Carton: 120

Flush Plates



HWDF2

Double Frame

Box: 20

Carton: 240



HWDF3

Triple Frame

Box: 18

Carton: 180

Future Ready

Upgrade your Style Series switches with our WIFI Smart modules



HHESM

Smart Switch Module

Box: 1

Carton: 100



HHE2SM

2 Gang Switch Module

Box: 1

Carton: 100



HHESD

Smart Dimmer Module

Box: 1

Carton: 100



HHE2SD

2 Gang Dimmer Module

Box: 1

Carton: 100





Modern Series

European Wiring Devices



Range Presentation

Switch to the future with Modern Series. With their striking design, quality material and durable construction, Modern switches and sockets are ideally suited for your new constructions and renovation projects. A wide variety of functionalities and large range of colors to choose from, providing design solutions for every modern homes and commercial spaces. You can create an unlimited number of combinations with our latest light and metal edition, together with the different frames combined with the modules.

Features

- ◆ 60 functionalities
- ◆ Two material options: light plastic and metallic
- ◆ All sockets available with shutters to prevent accidents
- ◆ Multiple frames up to 6 gangs
- ◆ Presents both slimness and functionality
- ◆ Works with Himel Smart

Selection Code

| Range name                                                                                                                 | Functionality                                                | Color                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HWDM</b>                                                                                                                | <b>xxx</b>                                                   | <b>C</b>                                                                                                                                                        |
| <b>A:</b> Advanced<br><b>S:</b> Style<br><b>M:</b> Modern<br><b>C:</b> Click<br><b>CE:</b> Click Eco<br><b>P:</b> Prime V2 | You may replace XX codes by functionality codes listed below | <b>Default:</b> White<br><b>C:</b> Cream<br><b>SM:</b> Smoke<br><b>MK:</b> Metallic Black<br><b>MO:</b> Mocha<br><b>MB:</b> Metallic Beige<br><b>SV:</b> Silver |

Online Content



Modern Series

Color Selection



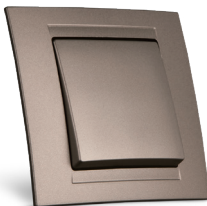
White



Cream



Smoked Grey



Mocha



Silver



Metallic Beige



Metallic Black

MODERN  
SERIES



Modern **Lines**  
Easy **Installation**  
Multiple **Application**

Socket Outlets



HWDM1S  
Switch  
Box: 15  
Carton: 150



HWDM2S  
2 Gang Switch  
Box: 15  
Carton: 150



HWDM1C  
Push Button  
Box: 15  
Carton: 150



HWDM1S2  
2 Way Switch  
Box: 15  
Carton: 150



HWDM2S2  
2 Gang 2 Way Switch  
Box: 15  
Carton: 150



HWDMDC  
Door Check  
Box: 15  
Carton: 150



Modern Series

European Wiring Devices

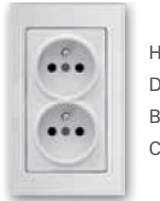


|                                                                                                                                                                                                |                                                                                                                                                                                     |                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>HWDMDB<br/>Door Bell<br/>Box: 15<br/>Carton: 150</p>                                                       |  <p>HWDMCS<br/>Roller Blind Switch, 1 Gang<br/>Box: 15<br/>Carton: 150</p>                         |  <p>HWDM2CS<br/>Roller Blind Switch, 2 Gang<br/>Box: 15<br/>Carton: 150</p>                                    |
|  <p>HWDMMB<br/>Volume Control Switch<br/>Box: 12<br/>Carton: 120</p>                                           |  <p>HWDMMW<br/>Intermediate Switch<br/>Box: 15<br/>Carton: 150</p>                                 |  <p>HWDM3S<br/>3 Gang Switch<br/>Box: 15<br/>Carton: 150</p>                                                   |
|  <p>HWDMWD<br/>Water Heater<br/>Box: 15<br/>Carton: 150</p>                                                    |  <p>HWDM1SI<br/>Illuminated Switch<br/>Box: 15<br/>Carton: 150</p>                                 |  <p>HWDM2SI<br/>Illuminated 2 Gang Switch<br/>Box: 15<br/>Carton: 150</p>                                      |
|  <p>White; HWDM1CI<br/>Socket Outlets: Illuminated<br/>Push Button<br/>Box: 15<br/>Carton: 150</p>            |  <p>HWDM1CI2<br/>Illuminated 2 Way Switch<br/>Box: 15<br/>Carton: 150</p>                         |  <p>HWDMBB<br/>Illuminated Push Button<br/>with Label Holder<br/>Box: 15<br/>Carton: 150</p>                  |
|  <p>HWDMSO<br/>Socket<br/>Box: 15<br/>Carton: 150</p>                                                        |  <p>HWDMSOS<br/>Socket with Child Protection<br/>Box: 15<br/>Carton: 150</p>                     |  <p>HWDMESS<br/>Socket with Side Earth with<br/>Child Protection<br/>Box: 15<br/>Carton: 150</p>             |
|  <p>HWDMES<br/>Socket with Side Earth<br/>Box: 15<br/>Carton: 150</p>                                        |  <p>HWDMESC<br/>Socket with Side Earth with<br/>Cover<br/>Box: 15<br/>Carton: 150</p>            |  <p>HWDMUPS<br/>Socket with Pin Earth<br/>Box: 15<br/>Carton: 150</p>                                        |
|  <p>HWDMUPSSC<br/>Socket with Pin Earth with<br/>Child Protection with cover<br/>Box: 15<br/>Carton: 150</p> |  <p>HWDMUPSS<br/>Socket with Pin Earth with<br/>Child Protection<br/>Box: 15<br/>Carton: 150</p> |  <p>HWDMESCS<br/>Socket with Side Earth with<br/>Child Protection with cover<br/>Box: 15<br/>Carton: 150</p> |
|  <p>HWDMUPSC<br/>Socket with Pin Earth with<br/>Cover<br/>Box: 15<br/>Carton: 150</p>                        |  <p>HWDM2SO<br/>Double Socket<br/>Box: 10<br/>Carton: 100</p>                                    |  <p>HWDM2ES<br/>Double Socket with Side Earth<br/>Box: 10<br/>Carton: 100</p>                                |

Modern Series

European Wiring Devices



|                                                                                                                                                                                 |                                                                                                                                                                               |                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>HWDM2UPS<br/>Double Socket with Pin Earth<br/>Box: 10<br/>Carton: 100</p>                |  <p>HWDM1SI<br/>Dimmer, 1000VA<br/>Box: 12<br/>Carton: 120</p>                             |  <p>HWDM2SI<br/>Illuminated Dimmer, 1000VA<br/>Box: 12<br/>Carton: 120</p>             |
|  <p>HWDM1CI<br/>2Way Dimmer, 600A<br/>Box: 12<br/>Carton: 120</p>                            |                                                                                                                                                                               |                                                                                                                                                                           |
| <b>Telecommunication Accessories</b>                                                                                                                                            |                                                                                                                                                                               |                                                                                                                                                                           |
|  <p>HDMTV<br/>TV Socket, Ending-Intermediate<br/>Box: 15<br/>Carton: 150</p>                |  <p>HDMSAT<br/>TV SAT Socket, Intermediate<br/>Box: 15<br/>Carton: 150</p>                |  <p>HDMSATL<br/>TV SAT Radio Socket,<br/>Intermediate<br/>Box: 15<br/>Carton: 150</p> |
|  <p>HWDMSATV<br/>TV SAT Socket, Ending<br/>Box: 15<br/>Carton: 150</p>                     |  <p>HWDMSATF<br/>SAT Socket, Single with<br/>F Connector<br/>Box: 15<br/>Carton: 150</p> |  <p>HWDMSATE<br/>SAT Socket, Single<br/>Box: 15<br/>Carton: 150</p>                  |
|  <p>HWDMT<br/>Telephone Socket<br/>Box: 15<br/>Carton: 150</p>                             |  <p>HWDMNT<br/>Telephone Socket Cat 3<br/>Box: 15<br/>Carton: 150</p>                    |  <p>HWDM2NT<br/>Double Telephone Socket<br/>Cat 3<br/>Box: 15<br/>Carton: 150</p>    |
|  <p>HWDMDS<br/>Data Socket Faceplate w/o<br/>connector<br/>Box: 15<br/>Carton: 150</p>     |  <p>HWDMDS5<br/>Data Socket RJ45, Cat 5<br/>Box: 15<br/>Carton: 150</p>                  |  <p>HWDM2DS5<br/>Double Data Socket RJ45,<br/>Cat 5<br/>Box: 15<br/>Carton: 150</p>  |
|  <p>HWDM5P3<br/>Data + Tel Socket (RJ45<br/>Cat 5 + Cat 3)<br/>Box: 15<br/>Carton: 150</p> |  <p>HWDMC<br/>Cable Output<br/>Box: 15<br/>Carton: 150</p>                               |  <p>HWDMDS6<br/>Data Socket RJ45, Cat 6<br/>Box: 15<br/>Carton: 150</p>              |

Modern Series

European Wiring Devices





HWD2DS6

Double Data Socket RJ45, Cat 6

Box: 15

Carton: 150



HWD6P3

Data + Phone Socket (Cat 6 + Cat 3)

Box: 15

Carton: 150



HWD2DS

Double Data Socket Faceplate w/o connector

Box: 15

Carton: 150



HWDMS

Audio Socket

Box: 15

Carton: 150

Electronic Group



HDMMS

Movement Detector

Box: 15

Carton: 150



HDMKC

Hotel Key Card Switch

Box: 15

Carton: 150



HWD1F

Single Frame

Box: 15

Carton: 150



HWD2F

Double Frame

Box: 15

Carton: 150



HWD3F

Triple Frame

Box: 15

Carton: 150



HWD4F

Quadruple Frame

Box: 15

Carton: 150

Future Ready

Upgrade your Modern Series switches with our WIFI Smart modules



HHESM

Smart Switch Module

Box: 1

Carton: 100



HHE2SM

2 Gang Switch Module

Box: 1

Carton: 100



HHESD

Smart Dimmer Module

Box: 1

Carton: 100



HHE2SD

2 Gang Dimmer Module

Box: 1

Carton: 100



Click Series

American Wiring Devices



Range Presentation

Click Series is characterized by its rounded shape and polished effect. Its modern and discrete design will fit in any home. All the switches and sockets are made in high quality Polycarbonate. Click Series has been designed with easiness in mind. Thanks to our quick connection terminals, electricians save 40% of their installation time. No need screwdriver anymore, just clips and go.

Features

- ◆ Modular to provide a variety of options
- ◆ Quick connection terminals to save 40% of installation time
- ◆ 5 different colors
- ◆ Works with Himel Smart

Selection Code

| Range name                                                                                                                 | Functionality                                                | Color                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>HWDC</b>                                                                                                                | <b>xxx</b>                                                   | <b>C</b>                                                                                             |
| <b>A:</b> Advanced<br><b>S:</b> Style<br><b>M:</b> Modern<br><b>C:</b> Click<br><b>CE:</b> Click Eco<br><b>P:</b> Prime V2 | You may replace XX codes by functionality codes listed below | <b>Default:</b> White<br><b>G:</b> Gold<br><b>C:</b> Coffee<br><b>M:</b> Metallic<br><b>B:</b> Black |

Online Content



Click Series

Color Selection



White



Gold



Brown



Black



Silver



# CLICK SERIES



Quick **Installation**  
Future **Ready**  
Multiple **Functions**

## Switches



HWDC1SL  
1 Gang 1 Way Switch Large Button  
Box: 10  
Carton: 100



HWDC1S2L  
1 Gang 2 Way Switch Large Button  
Box: 10  
Carton: 100



HWDC1SS  
1 Gang 1 Way Switch Small Button  
Box: 10  
Carton: 100



HWDC1S2S  
1 Gang 2 Way Switch Small Button  
Box: 10  
Carton: 100



HWDC2SL  
2 Gang 1 Way Switch Large Button  
Box: 10  
Carton: 100



HWDC2S2L  
2 Gang 2 Way Switch Large Button  
Box: 10  
Carton: 100

## HOME ELECTRIC

### Click Series

American Wiring Devices



HWDC2SS  
2 Gang 1 Way Switch Small Button  
Box: 10  
Carton: 100



HWDC2S2S  
2 Gang 2 Way Switch Small Button  
Box: 10  
Carton: 100



HWDC3S  
3 Gang 1 Way Switch  
Box: 10  
Carton: 100



HWDC3S2  
3 Gang 2 Way Switch  
Box: 10  
Carton: 100



HWDC4S  
4 Gang 1 Way Switch  
Box: 10  
Carton: 100



HWDC4S2  
4 Gang 2 Way Switch  
Box: 10  
Carton: 100



HWDCBS  
Bell Switch  
Box: 10  
Carton: 100



HWDCD  
1 Gang Dimmer Switch(300W/220V)  
Box: 8  
Carton: 80



HWDCFS  
1 Gang Fan Speed Switch(300W/220V)  
Box: 8  
Carton: 80

## Socket Outlets



HWDC12P  
1 Gang 2 Pin Socket  
Box: 10  
Carton: 100



HWDC12PS  
1 Gang 2 Pin Socket + Shutter  
Box: 10  
Carton: 100



HWDC22P  
2 Gang 2 Pin Socket  
Box: 10  
Carton: 100



HWDC22PS  
2 Gang 2 Pin Socket + Shutter  
Box: 10  
Carton: 100



HWDC32P  
3 Gang 2 Pin Socket  
Box: 10  
Carton: 100



HWDC32PS  
3 Gang 2 Pin Socket + Shutter  
Box: 10  
Carton: 100



HWDC1S2P  
1 Gang 1 Way Switch 2 Pin Socket  
Box: 10  
Carton: 100



HWDC1S22P  
1 Gang 2 Way Switch 2 Pin Socket  
Box: 10  
Carton: 100



HWDC1A  
3 Pin American Socket  
Box: 10  
Carton: 100



HWDC1SA  
1 Gang 1 Way Switch American Socket  
Box: 10  
Carton: 100



HWDC1S2A  
1 Gang 2 Way Switch American Socket  
Box: 10  
Carton: 100



HWDC2A  
2 Gang American Socket  
Box: 10  
Carton: 100

Click Series

American Wiring Devices



|                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    | <p>HWDC20A<br/>1 Gang 20A Socket<br/>Box: 10<br/>Carton: 100</p>                    |    | <p>HWDC20A<br/>1 Gang 20A Socket<br/>Box: 10<br/>Carton: 100</p>                    |    | <p>HWDC20A<br/>1 Gang 20A Socket<br/>Box: 10<br/>Carton: 100</p>                    |
|    | <p>HWDC1AUSB<br/>American Socket + 2 port USB (2A)<br/>Box: 8<br/>Carton: 80</p>    |    | <p>HWDC1AUSB<br/>American Socket + 2 port USB (2A)<br/>Box: 8<br/>Carton: 80</p>    |    | <p>HWDC1AUSB<br/>American Socket + 2 port USB (2A)<br/>Box: 8<br/>Carton: 80</p>    |
| Telecommunication Accessories                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                     |
|   | <p>HWDCT<br/>1 Gang 4coreTel Socket<br/>Box: 10<br/>Carton: 100</p>                 |   | <p>HWDCT<br/>1 Gang 4coreTel Socket<br/>Box: 10<br/>Carton: 100</p>                 |   | <p>HWDCT<br/>1 Gang 4coreTel Socket<br/>Box: 10<br/>Carton: 100</p>                 |
|  | <p>HWDCTST<br/>1 Gang Satellite Socket + Tel Socket<br/>Box: 10<br/>Carton: 100</p> |  | <p>HWDCTST<br/>1 Gang Satellite Socket + Tel Socket<br/>Box: 10<br/>Carton: 100</p> |  | <p>HWDCTST<br/>1 Gang Satellite Socket + Tel Socket<br/>Box: 10<br/>Carton: 100</p> |
|  | <p>HWDCTP<br/>1 Gang Plate<br/>Box: 20<br/>Carton: 200</p>                          |  | <p>HWDCTP<br/>1 Gang Plate<br/>Box: 20<br/>Carton: 200</p>                          |  | <p>HWDCTP<br/>1 Gang Plate<br/>Box: 20<br/>Carton: 200</p>                          |
|  | <p>HWDCTP3<br/>3 Gang Plate<br/>Box: 20<br/>Carton: 200</p>                         |  | <p>HWDCTP3<br/>3 Gang Plate<br/>Box: 20<br/>Carton: 200</p>                         |  | <p>HWDCTP3<br/>3 Gang Plate<br/>Box: 20<br/>Carton: 200</p>                         |

Click Series

American Wiring Devices



Modular

|                                                                                       |                                                                           |                                                                                       |                                                                                    |                                                                                       |                                                                                  |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|    | <p>HWDC51S<br/>1 Way Switch 72mm<br/>Box: 6<br/>Carton: 144</p>           |    | <p>HWDC51S2<br/>2 Way Switch 72mm<br/>Box: 6<br/>Carton: 144</p>                   |    | <p>HWDC52S1<br/>1 Way Switch 36mm<br/>Box: 12<br/>Carton: 288</p>                |
|    | <p>HWDC52S2<br/>2 Way Switch 36mm<br/>Box: 12<br/>Carton: 288</p>         |    | <p>HWDC53S<br/>1 Way Switch 24mm<br/>Box: 18<br/>Carton: 432</p>                   |    | <p>HWDC53S2<br/>2 Way Switch 24mm<br/>Box: 18<br/>Carton: 432</p>                |
|   | <p>HWDC53S3<br/>3 Way Switch 24mm<br/>Box: 18<br/>Carton: 432</p>         |   | <p>HWDC54S<br/>1 Way Switch 18mm*2<br/>Box: 12<br/>Carton: 288</p>                 |   | <p>HWDC54S2<br/>2 Way Switch 18mm*2<br/>Box: 12<br/>Carton: 288</p>              |
|  | <p>HWDC52P<br/>2 Pin Socket 24mm<br/>Box: 18<br/>Carton: 432</p>          |  | <p>HWDC52PS<br/>2 Pin Socket + Shutter 24mm<br/>Box: 18<br/>Carton: 432</p>        |  | <p>HWDC5MF<br/>MF Socket 36mm<br/>Box: 12<br/>Carton: 288</p>                    |
|  | <p>HWDC5AM<br/>3 Pin American Socket 24mm<br/>Box: 18<br/>Carton: 432</p> |  | <p>HWDC520A<br/>1 Gang 20A Socket 36mm<br/>Box: 12<br/>Carton: 288</p>             |  | <p>HWDC5TW<br/>Twin Receptacle<br/>Box: 6<br/>Carton: 144</p>                    |
|  | <p>HWDC5TWU<br/>Twin Universal Receptacle<br/>Box: 6<br/>Carton: 144</p>  |  | <p>HWDCAMUSB<br/>American Socket + 2 port USB (2A)<br/>Box: 30<br/>Carton: 300</p> |  | <p>HWDC5USB<br/>2A USB Charger 24mm<br/>Box: 16<br/>Carton: 384</p>              |
|  | <p>HWDC5SAT<br/>Satellite Socket 24mm<br/>Box: 18<br/>Carton: 432</p>     |  | <p>HWDC5TEL4<br/>4coreTel Socket 24mm<br/>Box: 18<br/>Carton: 432</p>              |  | <p>HWDC5DAT8<br/>8core data Socket +Shutter CAT5<br/>Box: 18<br/>Carton: 432</p> |

Click Series

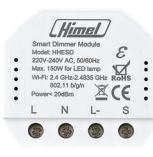
American Wiring Devices



|                                                                                   |                                                                                     |                                                                                   |                                                                    |                                                                                    |                                                                                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|  | <p>HWDC5BP<br/>Blank Plate 24mm<br/>Box: 36<br/>Carton: 864</p>                     |  | <p>HWDC5BS<br/>Bell Switch 24mm<br/>Box: 18<br/>Carton: 432</p>    |  | <p>HWDC5D<br/>Dimmer Switch<br/>(300W/220V) 24mm<br/>Box: 8<br/>Carton: 192</p> |
|  | <p>HWDC5FS<br/>Fan Speed Switch<br/>(200W/220V) 24mm<br/>Box: 8<br/>Carton: 192</p> |  | <p>HWDC5SEN<br/>Sensory Switch 36mm<br/>Box: 8<br/>Carton: 192</p> |  | <p>HWDC5BUZ<br/>Buzzer<br/>Box: 10<br/>Carton: 240</p>                          |

Future Ready

Upgrade your Click Series switches with our WIFI Smart modules

|                                                                                     |                                                                 |                                                                                     |                                                                   |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|  | <p>HHESM<br/>Smart Switch Module<br/>Box: 1<br/>Carton: 100</p> |  | <p>HHE2SM<br/>2 Gang Switch Module<br/>Box: 1<br/>Carton: 100</p> |
|  | <p>HHESD<br/>Smart Dimmer Module<br/>Box: 1<br/>Carton: 100</p> |  | <p>HHE2SD<br/>2 Gang Dimmer Module<br/>Box: 1<br/>Carton: 100</p> |



Click Eco Series

American Wiring Devices



Range Presentation

Click Eco Series is our semi slim design range of switches and sockets. It provides a quick and simply solution for any application. The interchangeable plates and modules allows the product to meet different market demands. Click Eco plates are screwless to give a modern look at home. Our products are developed in accordance with local and global safety standards.

Features

- ◆ Modular to provide a large variety of options
- ◆ Simple, practical and economic
- ◆ USB charger socket outlet
- ◆ Fire retardant material
- ◆ Works with Himel Smart

Selection Code

| Range name                                                                                                                             | Functionality                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <p><b>HWDCE</b></p>                                                                                                                    | <p><b>XXX</b></p>                                                   |
| <p><b>A:</b> Advanced<br/><b>S:</b> Style<br/><b>M:</b> Modern<br/><b>C:</b> Click<br/><b>CE:</b> Click Eco<br/><b>P:</b> Prime V2</p> | <p>You may replace XX codes by functionality codes listed below</p> |

Online Content



Click Eco Series



# CLICK Eco SERIES



Timeless **Design**  
Complete **Solution**  
Good **quality & economic**



### Switches



HWDCSS10  
1 Way Small Switch 10A 24mm  
Box: 18  
Carton: 432



HWDC2SS10  
2 Way Small Switch 10A 24mm  
Box: 18  
Carton: 432



HWDCSS15  
1 Way Small Switch 16A 24mm  
Box: 18  
Carton: 432



HWDC2SS15  
2 Way Small Switch 16A 24mm  
Box: 18  
Carton: 432



HWDC2LS10  
1 Way Medium Switch 36mm  
Box: 12  
Carton: 288



HWDC2LS10  
2 Way Medium Switch 36mm  
Box: 12  
Carton: 288

### HOME ELECTRIC

## Click Eco Series

American Wiring Devices



HWDCMS10  
1 Way Large Switch 10A 72mm  
Box: 6  
Carton: 144



HWDC2MS10  
2 Way Large Switch 10A 72mm  
Box: 6  
Carton: 144



HWDC2BS  
Bell Switch 24mm  
Box: 18  
Carton: 432

### Sockets



HWDC2P  
2Pin Socket 10A 24mm  
Box: 18  
Carton: 432



HWDC2PS  
2Pin Socket + Shutter 10A 24mm  
Box: 18  
Carton: 432



HWDC2FS  
2Pin Flat Socket 16A  
Box: 18  
Carton: 432



HWDC2USB  
2 USB Sockets 24mm  
Box: 18  
Carton: 432



HWDC2AS  
American Socket 16A  
Box: 18  
Carton: 432



HWDC2AS  
2Gang American Socket 72mm  
Box: 6  
Carton: 144



HWDC2US  
2Gang 3P Universal American  
Socket 72mm  
Box: 6  
Carton: 144

### Accessories



HWDC2BM  
Blank Module 24mm  
Box: 36  
Carton: 846



HWDC2DS  
Data Socket 24mm  
Box: 18  
Carton: 432



HWDC2CT  
4core Tel Socket 24mm  
Box: 18  
Carton: 432



HWDC2SAT  
Satellite TV Socket 24mm  
Box: 18  
Carton: 432



HWDC2D  
Dimmer Switch 300W,  
220V 24mm  
Box: 8  
Carton: 192



HWDC2FS  
Fan Speed Control 24mm  
Box: 8  
Carton: 192

Click Eco Series

American Wiring Devices

Plate



HWDCE1P  
1 Gang Plate  
Box: 20  
Carton: 200



HWDCE2P  
2 Gang Plate  
Box: 20  
Carton: 200



HWDCE3P  
3 Gang Plate  
Box: 20  
Carton: 200



HWDCEBP  
Blank Plate  
Box: 20  
Carton: 200

Future Ready

Upgrade your Click Eco Series switches with our WIFI Smart modules



HHESM  
Smart Switch Module  
Box: 1  
Carton: 100



HHE2SM  
2 Gang Switch Module  
Box: 1  
Carton: 100



HHESD  
Smart Dimmer Module  
Box: 1  
Carton: 100



HHE2SD  
2 Gang Dimmer Module  
Box: 1  
Carton: 100



Floor Series

Professional Wiring Devices



Range Presentation

Modern buildings needs are diverse and evolving. Himel Floor Sockets are solving the needs of the buildings of today and tomorrow thanks to a contemporary designed socket, popping out from the floor, providing convenient and safe power outlet. Perfect for residential and commercial buildings and for diverse flooring and countertop application (including wood, carpet, granite and marble).

Features

- ◆ 22 optional modules
- ◆ Prevent electrical short circuit and reduce tripping hazards
- ◆ Corrosion resistant
- ◆ Wear and pressure-resistant panel material
- ◆ Flame retardant modules
- ◆ Shutter protector
- ◆ Indonesia: SNI
- ◆ Works with Himel Smart

Selection Code

| Range name | Functionality                           | Material                | Application   |
|------------|-----------------------------------------|-------------------------|---------------|
| HHEF       | xxx                                     | A                       | W             |
| F: Floor   | FS: Floor Socket<br>FSTAB: Table Socket | A: Aluminum<br>C: Brass | W: Waterproof |

Online Content



Floor Series

Color Selection



Aluminum

Copper

Configuration Selection

| Empty Box        | + | Module Accessories                                                                                                                                                                                                                                             |
|------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-Module box     |   | <div><div></div><div></div></div> OR <div><div></div><div></div><div></div></div>                                                                                                                                                                              |
| 4-Module box     |   | <div><div></div><div></div></div> OR <div><div></div><div></div><div></div></div> OR <div><div></div><div></div><div></div><div></div></div>                                                                                                                   |
| 3-Module * 2 box |   | <div><div></div><div></div></div> OR <div><div></div><div></div><div></div></div> OR <div><div></div><div></div><div></div><div></div></div> OR <div><div></div><div></div><div></div><div></div><div></div></div>                                             |
| 6-Module box     |   | <div><div></div><div></div><div></div></div> OR <div><div></div><div></div><div></div><div></div></div> OR <div><div></div><div></div><div></div><div></div><div></div></div> OR <div><div></div><div></div><div></div><div></div><div></div><div></div></div> |



FLOOR  
SERIES



For the **buildings** of  
today and tomorrow  
Contemporary  
**Convenient** and **Safe**

Floor Box

- 

HHEFS1A  
POP UP FLOOR  
SOCKET Alu. Alloy  
3-Module box  
Box: 1  
Carton: 12
- 

HHEFS1C  
POP UP FLOOR SOCKET  
Brass Alloy  
3-Module box  
Box: 1  
Carton: 20
- 

HHEFS2A  
POP UP FLOOR  
SOCKET Alu. Alloy  
4-Module box  
Box: 1  
Carton: 20
- 

HHEFS1CW  
POP UP WATERPROOF  
FLOOR SOCKET Brass Alloy  
3-Module box  
Box: 1  
Carton: 20
- 

HHEFS1AW  
POP UP WATERPROOF  
FLOOR SOCKET Alu. Alloy  
3-Module box  
Box: 1  
Carton: 20
- 

HHEFS2C  
POP UP FLOOR SOCKET  
Brass Alloy  
4-Module box  
Box: 1  
Carton: 12

HOME ELECTRIC  
Floor Series

Professional Wiring Devices



- 

HHEFS22A  
POP UP FLOOR SOCKET Alu.  
Alloy 3-Module \* 2 box  
Box: 1  
Carton: 10
- 

HHEFS22C  
POP UP FLOOR SOCKET Brass  
Alloy 3-Module \* 2 box  
Box: 1  
Carton: 10
- 

HHEFSTABA  
POP UP TABLE SOCKET  
AL. 6-Module box  
Box: 1  
Carton: 12
- 

HHEFSTAB  
OPEN COVER TABLE SOCKET  
ABS 6-Module box  
Box: 1  
Carton: 12

2-Module Accessories

- 

HHEFSF18  
American Socket  
Box: 10  
Carton: 250
- 

HHEFSF4  
Universal Socket  
Box: 10  
Carton: 250
- 

HHEFSF11  
British Socket  
Box: 10  
Carton: 250
- 

HHEFSF15  
Euro Socket  
Box: 10  
Carton: 250
- 

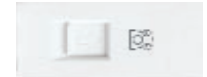
HHEFSF3  
3Pin 10A Socket  
Box: 10  
Carton: 250
- 

HHEFSF9  
Double USB Charger  
Box: 10  
Carton: 250

1-Module Accessories

- 

HHEFSF2  
2Pin Socket  
Box: 20  
Carton: 500
- 

HHEFSF58  
Sound Socket  
Box: 50  
Carton: 1000
- 

HHEFSF23  
Tel Socket  
Box: 50  
Carton: 1000
- 

HHEFSF21  
Data Socket  
Box: 50  
Carton: 1000
- 

HHEFSF20  
Data Plate  
Box: 100  
Carton: 2000
- 

HHEFSF56  
Video Socket  
Box: 50  
Carton: 1000
- 

HHEFSF55  
Audio Socket  
Box: 50  
Carton: 1000
- 

HHEFSF50  
TV Socket  
Box: 50  
Carton: 1000
- 

HHEFSF51  
BNC Socket  
Box: 50  
Carton: 1000

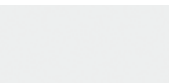
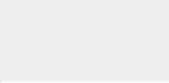


Floor Series

Professional Wiring Devices



1-Module Accessories

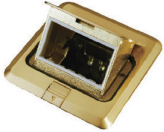
|                                                                                    |                                                              |                                                                                   |                                                      |                                                                                     |                                                          |
|------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------|
|   | HHEFSF52<br>3.5mm Earphone Socket<br>Box: 50<br>Carton: 1000 |  | HHEFSF60<br>Cannon Socket<br>Box: 50<br>Carton: 1000 |  | HHEFSF65<br>15 VGA Pin Socket<br>Box: 50<br>Carton: 1000 |
|   | HHEFSF66<br>15 VGA Hole Socket<br>Box: 50<br>Carton: 1000    |  | HHEFSF70<br>Empty Plate<br>Box: 100<br>Carton: 2000  |   | HHEFSF68<br>HDMI Socket<br>Box: 50<br>Carton: 1000       |
|   | HHEFSF66<br>15 VGA Hole Socket<br>Box: 50<br>Carton: 1000    |  | HHEFSF70<br>Empty Plate<br>Box: 100<br>Carton: 2000  |   | HHEFSF68<br>HDMI Socket<br>Box: 50<br>Carton: 1000       |
|  | HHEFSF6<br>USB Charger<br>Box: 20<br>Carton: 500             |                                                                                   |                                                      |                                                                                     |                                                          |

Configuration Selection

Empty Box + Module Accessories

|                  |                                                                                                                                                                                                                                                                |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-Module box     | <div><div></div><div></div></div> OR <div><div></div><div></div><div></div></div>                                                                                                                                                                              |
| 4-Module box     | <div><div></div><div></div></div> OR <div><div></div><div></div><div></div></div> OR <div><div></div><div></div><div></div><div></div></div>                                                                                                                   |
| 3-Module * 2 box | <div><div></div><div></div></div> OR <div><div></div><div></div><div></div></div> OR <div><div></div><div></div><div></div><div></div></div>                                                                                                                   |
| 6-Module box     | <div><div></div><div></div><div></div></div> OR <div><div></div><div></div><div></div><div></div></div> OR <div><div></div><div></div><div></div><div></div><div></div></div> OR <div><div></div><div></div><div></div><div></div><div></div><div></div></div> |

How To Order:



+



+



=



HHEFS1CW

+

HHEFSF11

+

HHEFSF21

=

HHEFS1CWF11F21

Extension Sockets

Standard: IEC60884  
Certificate: CE & RoHS



Range Presentation

A range of multi-outlet extensions with cord which are suitable in both home and workspace. Perfect to connect several devices equipped with plugs with or without earth. Our extension sockets are flat and can be fitted underneath furniture. Available with or without switch, to power on and off without operating the main socket. Design with your comfort and safety as priority.

Features

- ◆ Euro plug and sockets (schuko)
- ◆ Cable Net Length: 1.4M
- ◆ Protection level: IP20
- ◆ 16A max power 3500W at 230V
- ◆ Child protection shutters tested to 10,000 operations
- ◆ Up to 5 sockets
- ◆ Cost-effective and meeting most basic needs and devices

Selection Code

| Range name                                              | Functionality                                            | Functionality                                                                                        |
|---------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>HHEESES</b>                                          | <b>3</b>                                                 | <b>S</b>                                                                                             |
| <b>ES:</b> extension socket<br><b>ES:</b> euro standard | <b>3:</b> 3 gang<br><b>4:</b> 4 gang<br><b>5:</b> 5 gang | <b>Default:</b> no switch<br><b>S:</b> with main switch<br><b>S2USB:</b> with main switch with 2 USB |

Online Content



Extension Sockets

Order Information

|                                                                                       |                                                                                |                                                                                       |                                                                                |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|  | HHEESES3<br>European type 3 gang<br>Box: 1<br>Carton: 60                       |  | HHEESES4<br>European type 4 gang<br>Box: 1<br>Carton: 40                       |
|  | HHEESES3S<br>European type 3 gang with switch<br>Box: 1<br>Carton: 60          |  | HHEESES4S<br>European type 4 gang with switch<br>Box: 1<br>Carton: 40          |
|  | HHEESES3S2USB<br>European type 3 gang with switch 2USB<br>Box: 1<br>Carton: 20 |  | HHEESES5S2USB<br>European type 5 gang with switch 2USB<br>Box: 1<br>Carton: 20 |

Tool Boxes



Range Presentation

Constructed specifically for the professional electrician. Enhance the way you work with the most commonly used tools, including electronic test pencil, cuter, hammer, electrical tape, screwdriver etc. Whether next door or at the most remote site, HimelToolbox guarantee to always get the tools required.

Features

- ◆ Set: 8 pieces / 18 pieces

Selection Code

| Range name  | Functionality                                    |
|-------------|--------------------------------------------------|
| HHETS       | 8                                                |
| TS:Tool set | 8: 8 individual tools<br>18: 18 individual tools |

Online Content



Tool Boxes

Order Information

HHETS8  
Tool Set 8 Pieces  
Box: 1  
Carton: 10



Stationery Knife 18mm

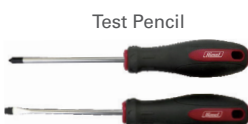


6 inch Wire Cutter



Claw Hammer

Test Pencil



Cross & straight Screwdriver



Electrical Tape

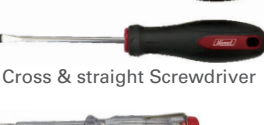


2M Tape Measure

HHETS18  
Tool Set 18 Pieces  
Box: 1  
Carton: 6



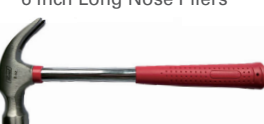
Cross & straight Screwdriver



Test Pencil

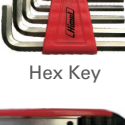


6 inch Long Nose Pliers



Claw Hammer

Hex Key



Stationery Knife 18mm



6 inch Wire Cutter



Electrical Tape



8 inch Adjustable Spanner



2M Tape Measure

Cable Ties



Range Presentation

The unmissable product for electricians. Clean your installations by holding cables together or in a specific location. Our cable ties can also be used for hanging or storing parts.They are made from nylon 66, they are super easy to use and a must in every professional electrician.

Features

- ◆ Material: Nylon 66
- ◆ Tensile Strenght (LBS): 18 / 40 / 50
- ◆ Max Bundle Diameter: 22 / 35 / 50 / 65 / 82 / 90
- ◆ Flammability rating 94V-2
- ◆ Weather and UV Resistant
- ◆ High Strength locking

Online Content



Cable Ties

| Commercial Ref | Length (mm) | Width (mm) | Colour                             | Minimum Operating Temperature | Maximum Operating Temperature | Maximum Bundle Diameter (mm) | Tensile Strength (LBS) | Quantity per bag | Bags per Master Carton |
|----------------|-------------|------------|------------------------------------|-------------------------------|-------------------------------|------------------------------|------------------------|------------------|------------------------|
| HHEC1025B      | 100         | 2.5        | Black                              | -40°C                         | 85°C                          | 22                           | 18                     | 100              | 500                    |
| HHEC1025W      | 100         | 2.5        | White                              | -40°C                         | 85°C                          | 22                           | 18                     | 100              | 500                    |
| HHEC1535B      | 150         | 3.5        | Black                              | -40°C                         | 85°C                          | 35                           | 40                     | 100              | 250                    |
| HHEC1535W      | 150         | 3.5        | White                              | -40°C                         | 85°C                          | 35                           | 40                     | 100              | 250                    |
| HHEC2048B      | 200         | 4.8        | Black                              | -40°C                         | 85°C                          | 50                           | 50                     | 100              | 100                    |
| HHEC2048W      | 200         | 4.8        | White                              | -40°C                         | 85°C                          | 50                           | 50                     | 100              | 100                    |
| HHEC2536B      | 250         | 3.6        | Black                              | -40°C                         | 85°C                          | 65                           | 40                     | 100              | 100                    |
| HHEC2536W      | 250         | 3.6        | White                              | -40°C                         | 85°C                          | 65                           | 40                     | 100              | 100                    |
| HHEC3048B      | 300         | 4.8        | Black                              | -40°C                         | 85°C                          | 82                           | 50                     | 100              | 100                    |
| HHEC3048W      | 300         | 4.8        | White                              | -40°C                         | 85°C                          | 82                           | 50                     | 100              | 100                    |
| HHEC3548B      | 350         | 4.8        | Black                              | -40°C                         | 85°C                          | 90                           | 50                     | 100              | 100                    |
| HHEC3548W      | 350         | 4.8        | White                              | -40°C                         | 85°C                          | 90                           | 50                     | 100              | 100                    |
| HHEC1025C1500  | 100         | 2.5        | Black / White / Red / Blue /Yellow | -40°C                         | 85°C                          | 22                           | 18                     | 1500             | 40                     |
| HHEC1535C800   | 150         | 3.5        | Black / White / Red / Blue /Yellow | -40°C                         | 85°C                          | 35                           | 40                     | 800              | 20                     |

Color Selection



Black



White



Colorful



Electrical Tape

Accessories & Tools



Range Presentation

Suitable for electrical insulation, binding, colour coding and general work.  
Strong flame retardant performance  
High temperature and high voltage resistance  
Effectively protect your electrical wires

Features

- ◆ Available in a large range of sizes and colors
- ◆ Manufactured from flame retardant materials
- ◆ Follow ROHS 1.0
- ◆ Operation temperature: 0°C to 80°C
- ◆ Withstand voltage <600V

Online Content



Electrical Tape

Selection Code

| Category                 | Series name         | Thickness   | Width    | Length                      | Colour                                                                                                |
|--------------------------|---------------------|-------------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------|
| HHE                      | ET                  | 013         | 18       | 10                          | B                                                                                                     |
| HHE: Himel Home Electric | ET: Electrical Tape | 013: 0.13mm | 18: 18mm | 5: 5m<br>10: 10m<br>20: 20m | B: Black<br>BL: Blue<br>W: White<br>G: Green<br>R: Red<br>Y: Yellow<br>GREY: Grey<br>YG: Yellow/Green |
|                          |                     | 015: 0.15mm | 19: 19mm | 5: 5m<br>10: 10m<br>20: 20m | B: Black<br>BL: Blue<br>W: White<br>G: Green<br>R: Red<br>Y: Yellow<br>YG: Yellow/Green               |
|                          |                     | 018: 0.18mm | 19: 19mm | 20: 20m                     | B: Black                                                                                              |

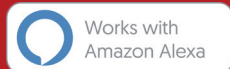
Pc(S)/Carton Depend On The Length

| Length | Unit(Pc(S)) | Pc(S)/Carton |
|--------|-------------|--------------|
| 10m    | Roll        | 300          |
| 20m    | Roll        | 200          |
| 5m     | Roll        | 450          |



Connected Home made Affordable

with Himel WiFi Solution, cost of connected products is reduced as a Hub is not required to use the products - products that 'speak' WiFi can be controlled directly





# Smart Plug

Smart Devices



## Range Presentation

Upgrade your regular appliance and add it to your smart home system by using Himel Smart Plug. Easy to install, just plug into your outlets and you can run your small appliances through your phone or with your voice. Improve your energy usage and add more convinience to your time at home.

## Features

- ◆ Overload protection
- ◆ Fire Resistant material
- ◆ Easy installation
- ◆ Control with app or voice
- ◆ Compatible with Amazon Alexa & Google Home
- ◆ Setting ScheduleTimer functionality

## Selection Code

| Range name      | Functionality  | Standard                                                         |
|-----------------|----------------|------------------------------------------------------------------|
| <b>HHES</b>     | <b>P</b>       | <b>US</b>                                                        |
| <b>S:</b> Smart | <b>P:</b> Plug | <b>US:</b> American<br><b>EU:</b> European<br><b>UK:</b> British |

## Online Content



Smart Plug

## Order Information



HHESPUK  
Smart plug-UK 13A  
Box: 1  
Carton: 180



HHESPUS  
Smart plug-US 16A  
Box: 1  
Carton: 200



HHESPEU  
Smart plug-EU 16A  
Box: 1  
Carton: 180

# Smart Bulbs

Smart Devices



## Range Presentation

Brighter and easier to control than ever, Himel Smart bulbs make home lighting more fun and comfortable. With built-in Wi-Fi radios connected directly with your router, you can control our bulbs remotely whenever you have an internet connection. There is no need of an expensive hub to control our devices, that's how we make connected home affordables. Play with our 16 million colors to transform the ambiance of any room.

## Features

- ◆ E27 cap type
- ◆ Energy efficient LED lighting
- ◆ 2 color ranges: Soft White and Colorful
- ◆ Control with app or voice
- ◆ Compatible with Amazon Alexa & Google Home
- ◆ ScheduleTimer functionality

## Selection Code

| Range name      | Color                                    |
|-----------------|------------------------------------------|
| <b>HHES</b>     | <b>BW</b>                                |
| <b>S:</b> Smart | <b>BW:</b> White<br><b>RGB:</b> Colorful |

## Online Content



Smart Bulbs

## Order Information



HHESBW  
9W White-E27  
Box: 1  
Carton: 50



HHESBRGB  
9W RGB-E27  
Box: 1  
Carton: 50

HOME ELECTRIC

# Smart Modules

Smart Devices



Range Presentation

Himel Smart Module is an affordable in-wall on/off module that can be installed behind traditional electrical switches. You can control the on and off status of your devices simply with your smartphone. Himel Smart Module makes all switches smart. As long as the mobile phone has network(2G/3G/4G/WiFi), users can remotely control the lights at home by turning them on off from anywhere at any time. Another feature available is to set timers for the light, which can include countdown/scheduled/ loop timers and thus enhance your everyday life.

Features

- ◆ Compact design
- ◆ Very low power consumption
- ◆ Easy installation
- ◆ Control with app or voice
- ◆ Compatible with Amazon Alexa & Google Home
- ◆ Setting ScheduleTimer

Selection Code

| Range name      | Gang            | Functionality                        |
|-----------------|-----------------|--------------------------------------|
| <b>HHES</b>     | <b>2</b>        | <b>M</b>                             |
| <b>S:</b> Smart | <b>2:</b> 2Gang | <b>M:</b> Switch<br><b>D:</b> Dimmer |

Online Content



Smart Modules

Future Ready

Upgrade your Click Eco Series switches with our WIFI Smart modules



HHESM  
Smart Switch Module  
Box: 1  
Carton: 100



HHE2SM  
2 Gang Switch Module  
Box: 1  
Carton: 100



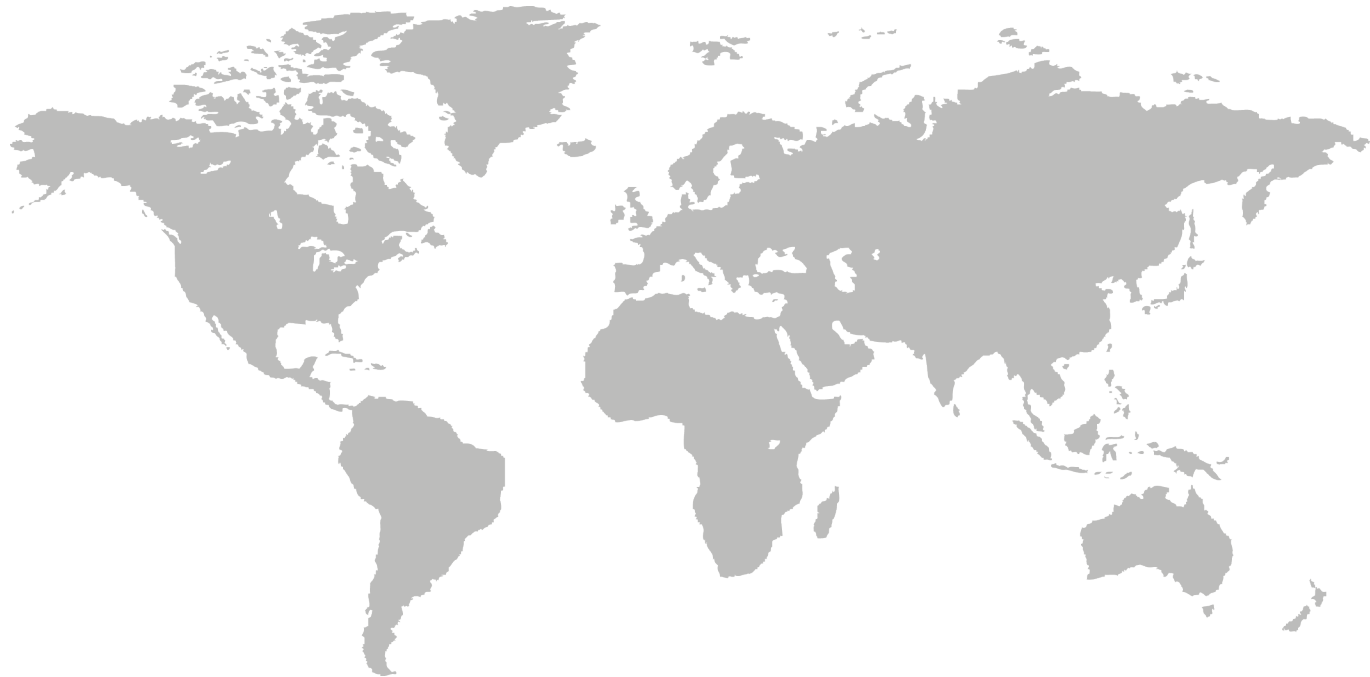
HHESD  
Smart Dimmer Module  
Box: 1  
Carton: 100



HHE2SD  
2 Gang Dimmer Module  
Box: 1  
Carton: 100



# Contact us



Contact Himel team  
support@himel.com



Contact local distributor

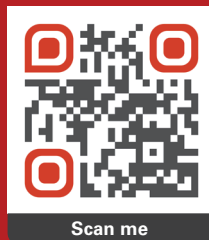
Company name:

Contact:

Tel:

Email:

Address:



Himel  
[www.himel.com](http://www.himel.com)

Sep 2020



TESLAKALA.COM

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