



# General Catalogue

Reliable made affordable







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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.





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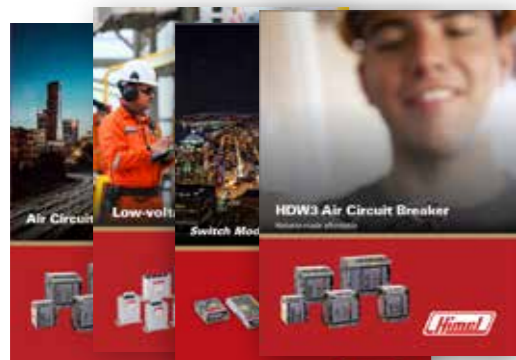
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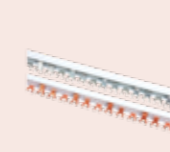
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# FINAL DISTRIBUTION



## 3 Series

### 3 Series Miniature Circuit Breakers



HDB3w HDB3wH HDB3w-125 HDB3wP HDB3wHP HDB3wZ

Rated current: 1-125A 003  
 Pole: 1P/1P+N/2P/3P/3P+N/4P  
 Breaking capacity: 6kA

### 3 Series RCBO



HDB3wLE HDB3wHLE HDB3wLE-125 HDB3wPLEY63 HDB3wHPLE

Rated current: 6A-63A 005  
 Pole: 1P+N/2P/3P/3P+N/4P  
 Breaking capacity: 6kA

### 3 Series RCCB & Switch Disconnectors



HDB3VR HDG3

Rated current: 10A-100A 007-008  
 Pole: 2P/4P      Rated current: 20A-125A  
 Pole: 1P/2P/3P/4P

### 3 Series Accessories



OF SD MO MV MVMN 009

## 9 Series

### 9 Series Miniature Circuit Breakers



HDB9 HDB9P HDB9Z

Rated current: 1-63A 010  
 Pole: 1P/2P/3P/4P  
 Breaking capacity: 6kA, 10kA

### 9 Series RCBO



HDB9LE HDB9LM HDB9PLE

Rated current: 6A-63A 012  
 Pole: 1P+N/2P/3P/3P+N/4P  
 Breaking capacity: 6kA

### 9 Series Switch Disconnectors



HDG9

Rated current: 32A-125A 014  
 Pole: 1P/2P/3P/4P

### 9 Series Accessories



SD OF MX+OF 015

# FINAL DISTRIBUTION

## HDBK Plug in Miniature Circuit Breakers NEW



HDBK

Rated current: 6-63A 016  
 Pole: 1P/2P/3P  
 Breaking capacity: 6kA, 10kA

## HDPZ50 Consumer Boxes



HDPZ50

Rated current: 100A 017  
 Protection grade: IP30  
 Material: Full plastic/metal

## HJXF Metal Enclosures



HJXF

Thickness: 1.0-1.5mm 019  
 Protection grade: IP43/IP54  
 Material: Metal

## HBBT Comb Busbars



HBBT

Pole: 1P/2P/3P/4P 021  
 Material of busbar: E-CU-F25  
 Type: PIN-type/U-type

## HDCH8S Modular Contactors



HDCH8S

Rated current: 16A-63A 022  
 Pole: 2P/3P/4P

## HDJS18 Time Relays



HDJS18

Rated conventional thermal current: 10A 023  
 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

## HDY3 Surge Protective Devices



HDY3

Type 2 024  
 Max discharge current:  
 20KA, 40KA, 65KA, 80KA, 120KA, 160KA  
 Pole: 1P/1P+N/2P/3P/3P+N/4P

## HKG Digital Time Switches



HKG

Rated control voltage: HKG316T: 230/400V AC 025  
 HKG316TD: 230/380V AC

## 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
<b>HDB3w</b>	<b>N</b>	<b>3</b>	<b>C</b>	<b>10</b>
<b>HDB3w</b> : MCB without indicator <b>HDB3wH</b> : MCB with indicator	<b>N</b> : 6kA	<b>1</b> : 1P <b>2</b> : 2P <b>3</b> : 3P <b>4</b> : 4P <b>5</b> : 1P+N <b>6</b> : 3P+N	<b>B</b> : Type B <b>C</b> : Type C <b>D</b> : Type D	<b>1</b> : 1A <b>20</b> : 20A <b>2</b> : 2A <b>25</b> : 25A <b>3</b> : 3A <b>32</b> : 32A <b>4</b> : 4A <b>40</b> : 40A <b>6</b> : 6A <b>50</b> : 50A <b>10</b> : 10A <b>63</b> : 63A <b>16</b> : 16A
<b>HDB3w125</b> : 27mm MCB with indicator, up to 125A	<b>N</b> : 6kA <b>H</b> : 10kA	<b>1</b> : 1P <b>2</b> : 2P <b>3</b> : 3P <b>4</b> : 4P	<b>B</b> : Type B <b>C</b> : Type C <b>D</b> : Type D	<b>63</b> : 63A <b>80</b> : 80A <b>100</b> : 100A <b>125</b> : 125A
<b>HDB3wP</b> : Phase Neutral MCB without indicator <b>HDB3wHP</b> : Phase Neutral MCB with indicator	<b>N</b> : 4.5kA (HDB3wP) <b>Default</b> : 4.5kA (HDB3wHP)	<b>Default</b> : all are 1P+N in single pole	<b>C</b> : Type C <b>D</b> : Type D	<b>6</b> : 6A <b>25</b> : 25A <b>10</b> : 10A <b>32</b> : 32A <b>20</b> : 20A <b>40</b> : 40A
<b>HDB3wZ</b> : DC MCB (Direct Current) without indicator	<b>Default</b> : 6kA (1P: 250V, 2/3P: 500V)	<b>1</b> : 1P <b>2</b> : 2P <b>3</b> : 3P	<b>B</b> : Type B <b>C</b> : Type C	<b>1</b> : 1A (Type C) <b>13</b> : 13A <b>2</b> : 2A (Type C) <b>16</b> : 16A <b>3</b> : 3A (Type C) <b>20</b> : 20A <b>4</b> : 4A (Type C) <b>25</b> : 25A <b>5</b> : 5A (Type C) <b>32</b> : 32A <b>6</b> : 6A <b>40</b> : 40A <b>8</b> : 8A <b>50</b> : 50A <b>10</b> : 10A <b>63</b> : 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
<b>Electrical characteristics</b>						
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) 415V (2P, 3P, 4P, 3P+N)		230V (1P) 400V (2P, 3P, 4P)	240V		DC 250V (1P) DC 500V (2P/3P)
Rated short-circuit capacity Icn	6kA		6kA 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, DType		B, C, DType	C, DType		B, CType
<b>Mechanical characteristics</b>						
Mechanical endurance	25000		8500 (In ≤ 100A) 7000 (In > 100A)	10000		20000
Electrical endurance	6000		1500 (In ≤ 100A) 1000 (In > 100A)	4000		3000
Protection class	IP40(Installed in DB box) IP20(Installed directly)		IP40 (Installed in DB box) IP20 (Installed directly)	IP40 (Installed in DB box) IP20 (Installed directly)		IP40 (Installed in DB box) 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
<b>Installation features</b>						
Maximum wiring capacity	25mm <sup>2</sup>		50mm <sup>2</sup>	16mm <sup>2</sup>		25mm <sup>2</sup>
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



## FINAL DISTRIBUTION

# 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 <b>HDB3wHLE:</b> RCBO with indicator	<b>N:</b> 6kA	<b>1:</b> 1P+N <b>2:</b> 2P <b>3:</b> 3P <b>4:</b> 4P <b>6:</b> 3P+N	<b>C:</b> Type C <b>D:</b> Type D	<b>6:</b> 6A <b>10:</b> 10A <b>16:</b> 16A <b>20:</b> 20A <b>25:</b> 25A <b>32:</b> 32A <b>40:</b> 40A <b>50:</b> 50A <b>63:</b> 63A	<b>Default:</b> 30mA <b>R50:</b> 50mA <b>R75:</b> 75mA <b>R100:</b> 100mA <b>R300:</b> 300mA	<b>Default:</b> NO <b>G:</b> Over-voltage protection
<b>HDB3wLE125:</b> RCBO with indicator, up to 125A	<b>Default:</b> 10kA	<b>1:</b> 1P+N <b>2:</b> 2P <b>3:</b> 3P <b>4:</b> 4P <b>6:</b> 3P+N	<b>C:</b> Type C <b>D:</b> Type D	<b>63:</b> 63A <b>80:</b> 80A <b>100:</b> 100A <b>125:</b> 125A	<b>Default:</b> 30mA <b>W:</b> 50mA <b>Q:</b> 75mA <b>Y:</b> 100mA <b>T:</b> 300mA	<b>Default:</b> NO <b>G:</b> Over-voltage protection
<b>HDB3wPLEY63:</b> Phase neutral RCBO without indicator <b>HDB3wHPLE:</b> Phase neutral RCBO with indicator	<b>Default:</b> 4.5kA <b>A:</b> 3kA HDB3wHPLE only	<b>Default:</b> 1P+N	<b>C:</b> Type C <b>D:</b> Type D	<b>6:</b> 63A <b>10:</b> 10A <b>16:</b> 16A <b>20:</b> 20A <b>32:</b> 32A <b>40:</b> 40A <b>50:</b> 50A (PLEY63 only) <b>63:</b> 63A (PLEY63 only)	<b>Default:</b> 30mA	<b>Default:</b> NO <b>G:</b> Over-voltage protection (Only HDB3wHPLE)

### Online Content



HDB3wLE



HDB3wHLE



HDB3wLE-125



HDB3wPLEY63



HDB3wHPLE

## FINAL DISTRIBUTION

# 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
<b>Electrical characteristics</b>					
Standard	IEC 61009-1		IEC 60947-2	IEC 61009-1	
Certificate	CE, ROHS (2P, 3P, 4P)		CE, CB, 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) 400V (3P, 4P, 3P+N)		230 (1P+N, 2P) 400V (3P, 4P, 3P+N)	240V	240V
Rated short-circuit capacity Icn	6kA		10kA	4.5kA	
Rated impulse withstand voltage Uimp	4kV		4kV	4kV	
Pollution class	2		2	2	
Tripping type	Thermal magnetic tripping				
Isolation function	YES		YES	YES	
Rated residual operating current In	30, 50, 75, 100, 300mA		30, 50, 75, 100, 300mA	30mA	
Tripping characteristics	C, D Type		C, D Type	C, D Type	
<b>Mechanical characteristics</b>					
Mechanical endurance	25000		8500	4000	
Electrical endurance	6000		3000	4000	
Protection class	IP40 (Installed in DB box) IP20 (Installed directly)		IP40 (Installed in DB box) IP20 (Installed directly)	IP40 (Installed in DB box) 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	-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	
<b>Installation features</b>					
Maximum wiring capacity	Rated current 6~32A: 16mm <sup>2</sup> 40~63A: 25mm <sup>2</sup>		Rated current 50mm <sup>2</sup>	Rated current 16mm <sup>2</sup>	
Maximum torque	Rated current 6~32A: 2N.m 40~63A: 2.5N.m		Rated current 3.5N.m	Rated current 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	

## 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
<b>HDG3</b>	<b>3</b>	<b>32</b>
<b>HDG3</b>	1: 1P 2: 2P 3: 3P 4: 4P	20: 20A    63: 63A 25: 25A    80: 80A 32: 32A    100: 100A 40: 40A    125: 125A 50: 50A

Technical Parameters	
<b>Switch Disconnectors</b>	<b>HDG3</b>
<b>Electrical characteristics</b>	
Standard	IEC 60947-3
Certificate	CE, CB, ROHS
Rated insulation voltage $U_i$	500V
Frequency	50/60Hz
Rated operational voltage $U_e$	230 (1P) 400V (2P, 3P, 4P)
Rated short-time withstand current $I_{cw}$ (kA)	20le/1s
Rated short-circuit making capacity $I_{cm}$ (kA)	28, 1le
Rated impulse withstand voltage $U_{imp}$	4kV
Pollution class	2
Isolation function	Yes
<b>Mechanical characteristics</b>	
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
<b>Installation Features</b>	
Maximum wiring capacity	25mm <sup>2</sup>
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
<b>HDB3VR</b>	<b>2</b>	<b>10</b>	<b>L</b>	<b>C</b>
<b>HDB3VR :</b> Electromagnetic Type RCCB	2: 2P 4: 4P	10: 10A 16: 16A 25: 25A 40: 40A 63: 63A 80: 80A 100: 100A	L: 10mA S: 30mA Y: 100mA T: 300mA	C: ACType A: AType

Technical Parameters	
<b>RCCB</b>	<b>HDB3VR</b>
<b>Electrical characteristics</b>	
Standard	IEC 61008-1
Certificate	CE, TUV, ROHS
Rated insulation voltage $U_i$	500V
Frequency	50/60Hz
Rated operational voltage $U_e$	240 (2P) 415V (4P)
Rated short-circuit capacity $I_{cn}$	6kA
Rated impulse withstand voltage $U_{imp}$	4kV
Pollution class	2
Type	A, ACType
Isolation function	Yes
Rated residual operating current $I_{\Delta n}$	10, 30, 100, 300mA
<b>Mechanical characteristics</b>	
Endurance	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
<b>Installation Features</b>	
Maximum wiring capacity	25mm <sup>2</sup> (≤63A) 35mm <sup>2</sup> (> 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

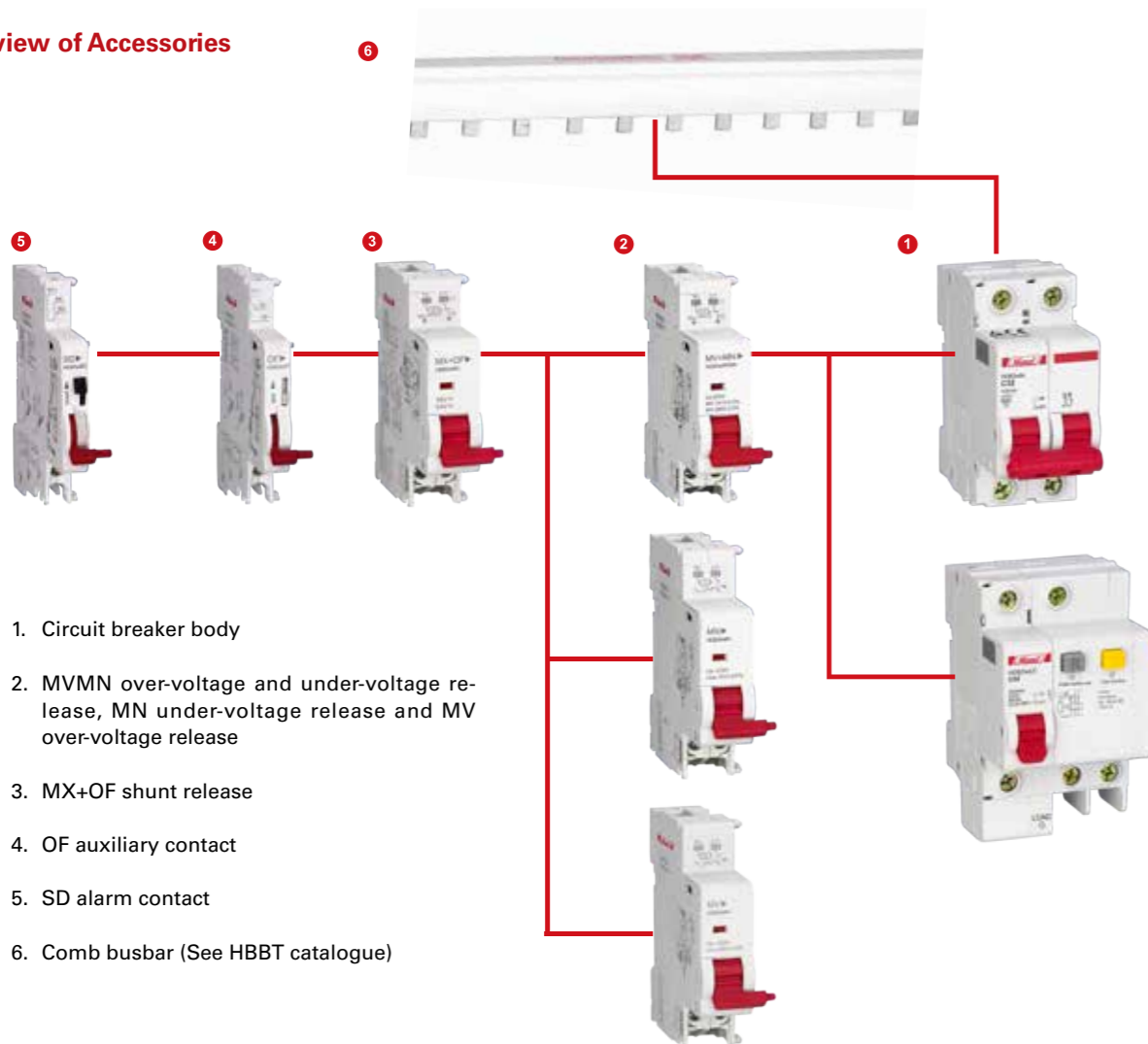


Compatible with HDB3w, HDB3wH, HDB3wP, HDB3wHP, HDB3wLE, HDB3wHLE, HDB3wPLEY63, HDB3wHPLE

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 (AC 130-415V, DC 110-130V) HDB3wMO24 (AC/DC 24-48V)	HDB3wMV	HDB3wMN	HDB3wMVMN
Rated voltage	AC 240/415 DC 130V,48V,24V	AC 240/415 DC 130V,48V,24V	AC 130V~415V DC 110~130V AC/DC 24V-48V (AC/DC 24~48V)	AC 130V~415V DC 110~130V AC/DC 24V-48V	AC 240V	AC 240V
Wiring capacity	1~2.5mm <sup>2</sup>	1~2.5mm <sup>2</sup>	1~2.5mm <sup>2</sup>	1~2.5mm <sup>2</sup>	1~2.5mm <sup>2</sup>	1~2.5mm <sup>2</sup>
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
<b>HDB9</b>	<b>N63A</b>	<b>3</b>	<b>C</b>	<b>10</b>
<b>HDB9:</b> MCB	<b>N63A:</b> 6kA <b>H63A:</b> 10kA	<b>1:</b> 1P <b>2:</b> 2P <b>3:</b> 3P <b>4:</b> 4P <b>5:</b> 1P+N <b>6:</b> 3P+N	<b>B:</b> Type B <b>C:</b> Type C <b>D:</b> Type D	<b>1:</b> 1A <b>20:</b> 20A <b>2:</b> 2A <b>25:</b> 25A <b>4:</b> 4A <b>32:</b> 32A <b>6:</b> 6A <b>40:</b> 40A <b>10:</b> 10A <b>50:</b> 50A <b>16:</b> 16A <b>63:</b> 63A
<b>HDB9P:</b> Phase Neutral MCB	<b>H:</b> 6KA	<b>Default:</b> all are 1P+N in single pole	<b>C:</b> Type C	<b>6:</b> 6A <b>10:</b> 10A <b>16:</b> 16A <b>20:</b> 20A <b>32:</b> 32A <b>40:</b> 40A
<b>HDB9Z:</b> DC MCB (Direct Current)	<b>63:</b> 1P/2P 125V/250V(10kA) 1P/2P/4P 250V/500V/1000V (6kA)	<b>1:</b> 1P <b>2:</b> 2P <b>4:</b> 4P	<b>B:</b> BType <b>C:</b> CType	<b>1:</b> 1A <b>20:</b> 20A <b>2:</b> 2A <b>25:</b> 25A <b>4:</b> 4A <b>32:</b> 32A <b>6:</b> 6A <b>40:</b> 40A <b>10:</b> 10A <b>50:</b> 50A <b>16:</b> 16A <b>63:</b> 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: red and green tripping indication window	Yes	Yes	Yes
<b>Electrical characteristics</b>			
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) 400V(2P, 3P, 3P+N, 4P)	240V	DC 125V, 250V (1P) DC 250V, 500V (2P) DC 1000V (4P)
Rated short-circuit capacity Icn	6kA 10kA	6kA	10KA (125V/1P,250V/2P) 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
<b>Mechanical characteristics</b>			
Mechanical endurance	20000	20000	20000
Electrical endurance	10000	10000	3000
Protection class	IP40 (Installed in DB box) IP20 (Installed directly)	IP40 (Installed in DB box) IP20 (Installed directly)	IP40 (Installed in DB box) 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
<b>Installation Features</b>			
Maximum wiring capacity	25mm <sup>2</sup>	16mm <sup>2</sup>	25mm <sup>2</sup>
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, earthleakage.

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
<b>HDB9LE</b>	<b>N63A</b>	<b>2</b>	<b>C</b>	<b>6</b>	<b>R50</b>
<b>HDB9LE:</b> Electronic RCBO	<b>N32A:</b> 6kA for rating up to 32A <b>N63A:</b> 6kA for rating above 32A	<b>1:</b> 1P+N <b>2:</b> 2P <b>3:</b> 3P <b>4:</b> 4P <b>6:</b> 3P+N	<b>C:</b> Type C	<b>6:</b> 6A <b>10:</b> 10A <b>16:</b> 16A <b>20:</b> 20A <b>25:</b> 25A <b>32:</b> 32A <b>40:</b> 40A <b>50:</b> 50A <b>63:</b> 63A	<b>S:</b> 30mA <b>Y:</b> 100mA <b>T:</b> 300mA
<b>HDB9LM:</b> Electromagnetic RCBO	<b>63:</b> 6kA	<b>5:</b> 1P+N <b>6:</b> 3P+N	<b>C:</b> Type C	<b>6:</b> 6A <b>10:</b> 10A <b>16:</b> 16A <b>20:</b> 20A <b>25:</b> 25A <b>32:</b> 32A <b>40:</b> 40A <b>50:</b> 50A <b>63:</b> 63A	<b>S:</b> 30mA <b>T:</b> 300mA
<b>HDB9PLE:</b> Phase Neutral RCBO	<b>N:</b> 6kA	<b>Default:</b> 1P+N	<b>C:</b> Type C	<b>6:</b> 6A <b>10:</b> 10A <b>16:</b> 16A <b>20:</b> 20A <b>32:</b> 32A <b>40:</b> 40A	<b>L:</b> 10mA <b>S:</b> 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: red and green tripping indication window	Yes	Yes	Yes
<b>Electrical characteristics</b>			
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) 400V (3P, 4P, 3P+N)	230 (1P+N) 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
<b>Mechanical characteristics</b>			
Mechanical endurance	20000	20000	20000
Electrical endurance	10000	10000	4000
Protection class	IP40 (Installed in DB box) IP20 (Installed directly)	IP40 (Installed in DB box) IP20 (Installed directly)	IP40 (Installed in DB box) 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
<b>Installation features</b>			
Maximum wiring capacity	Rated current 6-32A: 16mm <sup>2</sup> Rated current 40-63A: 25mm <sup>2</sup>	25mm <sup>2</sup> ( < 40A) 35mm <sup>2</sup> ( ≥ 40A)	16mm <sup>2</sup>
Maximum torque	Rated current 6-32A: 2N.m Rated current 40-63A: 2.5N.m	3N.m ( < 40A) 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
<b>HDG9</b>	<b>125</b>	<b>3</b>	<b>32</b>
<b>HDG9</b>	125	<b>1:</b> 1P <b>2:</b> 2P <b>3:</b> 3P <b>4:</b> 4P	<b>32:</b> 32A <b>63:</b> 63A <b>100:</b> 100A <b>125:</b> 125A

## Technical Parameters

Switch Disconnectors	HDG9
<b>Electrical characteristics</b>	
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
<b>Mechanical characteristics</b>	
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
<b>Installation Features</b>	
Maximum wiring capacity	50mm <sup>2</sup>
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) HDB963MX48 (AC/DC 48V) 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 DC130V, 48V, 24V	AC 240/415 DC 130V, 48V, 24V	AC 100-415V DC 110V-130V AC/DC 12/24/48V	AC 100-415V DC 110V-130V AC/DC 12/24/48V	240V	240V
Wiring capacity	1-2.5mm <sup>2</sup>	1-2.5mm <sup>2</sup>	1-2.5mm <sup>2</sup>	1-2.5mm <sup>2</sup>	1-2.5mm <sup>2</sup>	1-2.5mm <sup>2</sup>
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



## 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 2: 2P 3: 3P	C: Type C	6: 6A    32: 32A 10: 10A    40: 40A 16: 16A    50: 50A 20: 20A    63: 63A 25: 25A

Technical Parameters	
Plug in MCB	HDBK
<b>Electrical features</b>	
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
<b>Mechanical features</b>	
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°C)	15~+60
Storage temperature(°C)	-25~+70
<b>Installation</b>	
Terminal size for cable(mm <sup>2</sup> )	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
<b>HDPZ50</b>	<b>M</b>	<b>4</b>
<b>HDPZ50</b>	<b>M:</b> Surface installation <b>R:</b> Flush installation	<b>6:</b> 6 ways <b>8:</b> 8 ways <b>12:</b> 12 ways <b>16:</b> 16 ways <b>20:</b> 20 ways <b>24:</b> 24 ways

### Selection code of full plastic DB

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

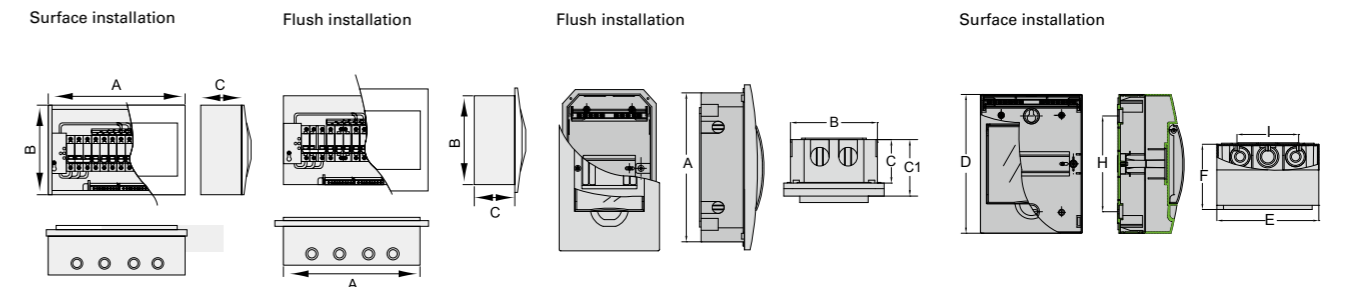
HDPZ50 Unit: mm

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

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
<b>HJXF</b>	<b>25</b>	<b>20</b>	<b>14</b>	<b>B</b>
<b>HJXF:</b> Metal Enclosure	<b>25:</b> 250 <b>30:</b> 200 <b>40:</b> 400 <b>50:</b> 500 <b>60:</b> 600 <b>70:</b> 700 <b>80:</b> 800 <b>100:</b> 1000	<b>20:</b> 200 <b>25:</b> 250 <b>30:</b> 300 <b>40:</b> 400 <b>50:</b> 500 <b>60:</b> 600 <b>80:</b> 800	<b>14:</b> 140 <b>16:</b> 160 <b>18:</b> 180 <b>20:</b> 200 <b>25:</b> 250 <b>30:</b> 300	<b>B:</b> IP 43 <b>Q:</b> IP 54

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	<b>1P:</b> 1 pole <b>2P:</b> 2 Poles <b>3P:</b> 3 Poles <b>4P:</b> 4 Poles	<b>40A:</b> 40A <b>63A:</b> 63A <b>75A:</b> 75A <b>80A:</b> 80A <b>85A:</b> 85A	<b>12:</b> 1.2mm <b>15:</b> 1.5mm	<b>P:</b> Pin type <b>F:</b> 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	<b>16:</b> 16A <b>20:</b> 20A <b>25:</b> 25A <b>40:</b> 40A <b>63:</b> 63A	<b>2:</b> 2P <b>3:</b> 3P <b>4:</b> 4P	<b>20:</b> 2NO (2P) <b>12:</b> 1NO 2NC (3P) <b>02:</b> 2NC (2P) <b>40:</b> 4NO (4P) <b>11:</b> 1NO 1NC (2P) <b>04:</b> 4NC (4P) <b>30:</b> 3NO (3P) <b>22:</b> 2NO 2NC (4P) <b>03:</b> 3NC (3P) <b>31:</b> 3NO 1NC (4P) <b>21:</b> 2NO 1NC (3P)

### Technical Parameters

Modular Contactors		HDCH8S					
		16A	20A	25A	40A	63A	
Type		IEC 61095					
Standard		IEC 61095					
Certificate		CE, CB					
Rated current I <sub>n</sub> (A)	AC-7a	16	20	25	40	63	
	AC-7b	6	7	8.5	15	20	
Conventional free air thermal current I <sub>th</sub> (A)		25	25	25	63	63	
Rated insulation voltage u <sub>i</sub> (V)		500					
Rated voltage u <sub>e</sub> (V)		250 400					
Rated impulse withstand voltage u <sub>imp</sub> (V)		4kV					
Ambient temperature		-5°C~ 60°C					
Making and breaking capacity (AC-7a)		1.05I <sub>e</sub>					
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 U <sub>s</sub> (V)		AC24V AC220-240V 50/60Hz					
IP grade		IP20					
Wiring Ability (mm <sup>2</sup> )	Control circuit	Hard wire	1.5-2.5 mm <sup>2</sup>			2×1.5mm <sup>2</sup>	
		Soft wire	1.5-2.5 mm <sup>2</sup>			2×2.5mm <sup>2</sup>	
	Main circuit	Hard wire	1.5-6mm <sup>2</sup>			6-25mm <sup>2</sup>	
		Soft wire	1-4 mm <sup>2</sup>			6-16mm <sup>2</sup>	

## 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 <b>B:</b> switch-on delay	<b>10S:</b> 1-10s <b>120S:</b> 12-120s <b>480S:</b> 48-480s	<b>220:</b> 220V <b>24:</b> 24V	<b>Default:</b> AC <b>AD:</b> AC/DC

Technical Parameters		HDJS18
<b>Time Relays</b>		
Rated conventional thermal current I <sub>th</sub> (A)		10
AC-15	U <sub>e</sub> (V)	380/240
	I <sub>e</sub> (A)	1.9/3
DC-13	U <sub>e</sub> (V)	24
	I <sub>e</sub> (A)	1.1
Control voltage U <sub>s</sub> (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°C~+40°C
Altitude		85%~110% U <sub>s</sub>
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 μs 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 <b>40:</b> 40kA <b>65:</b> 65kA <b>80:</b> 80kA <b>120:</b> 120kA <b>160:</b> 160kA	<b>1:</b> 1P <b>2:</b> 2P <b>3:</b> 3P <b>4:</b> 4P <b>5:</b> 1P+N <b>6:</b> 3P+N	<b>Default:</b> AC 385V <b>275:</b> AC 275V <b>440:</b> AC 440V	<b>YX:</b> Remote signaling <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 I <sub>n</sub> (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 HKG316TD HKG816A: White cover HKG816B: Transparent cover	230: 230V (HKG816 is only working under 230V) 400: 400V	Default: Single output 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 (Single output) 8-ON-8-OFF (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

### HDM3L Earth-Leakage Circuit Breakers **NEW**



HDM3L

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

028

### HRT Fuse



HRT16

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

047



HRT18

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

# 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
<b>HDM2</b>	<b>125</b>	<b>L</b>	<b>100</b>	<b>1</b>	<b>T</b>
HDM2	125: 125AF	L	010: 10A 016: 16A ... 100: 100A 125: 125A	1: 1P 2: 2P	None: 40°C T: 50°C

Technical Parameters	
<b>MCCB</b>	
<b>HDM2-125</b>	
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.

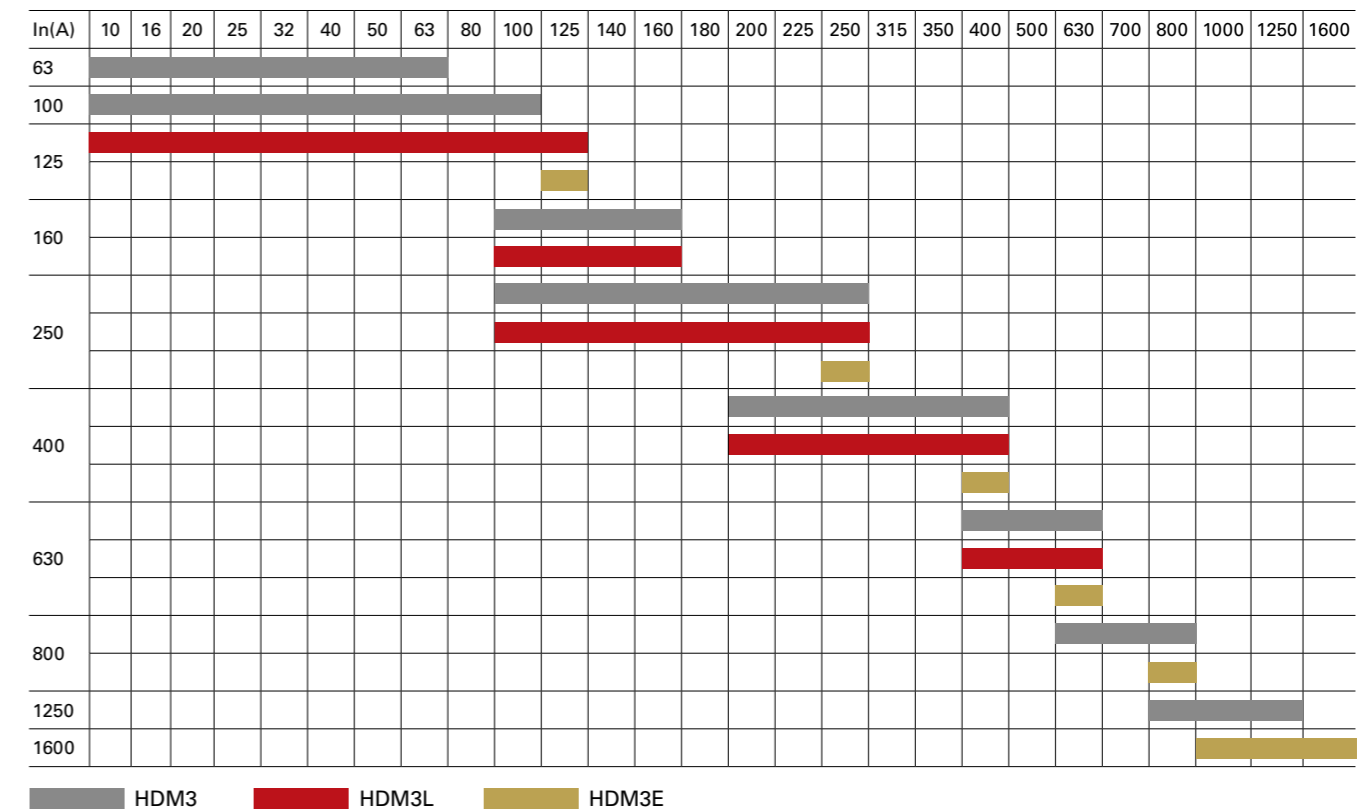
**HDM3E** is Himel 3 series range of MCCB with electronic type trip unit, providing LSI protection, up to 1600A.

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

1600A see page39

**Earth Leakage MCCB Selection Code**

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

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		HDM3-63	HDM3-100	HDM3-160	HDM3-250	HDM3-400	HDM3-630	HDM3-800	HDM3-1250										
MCCB																			
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		HDM3E-125	HDM3E-250	HDM3E-400	HDM3E-630	HDM3E-800	HDM3E-1600
Electronic type MCCB							
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	Electronic trip unit	■		■		■	
Isolation function		■		■		■	
Certification		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	Electronic 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	300, 500, 1000	300, 500, 1000	300, 500, 1000
Rated residual non-tripping current IΔno (mA)		50% IΔn				
Non-delay type: breaking time (s)		≤ 0.2				
Fixed delay: 2IΔn 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: 2IΔn 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

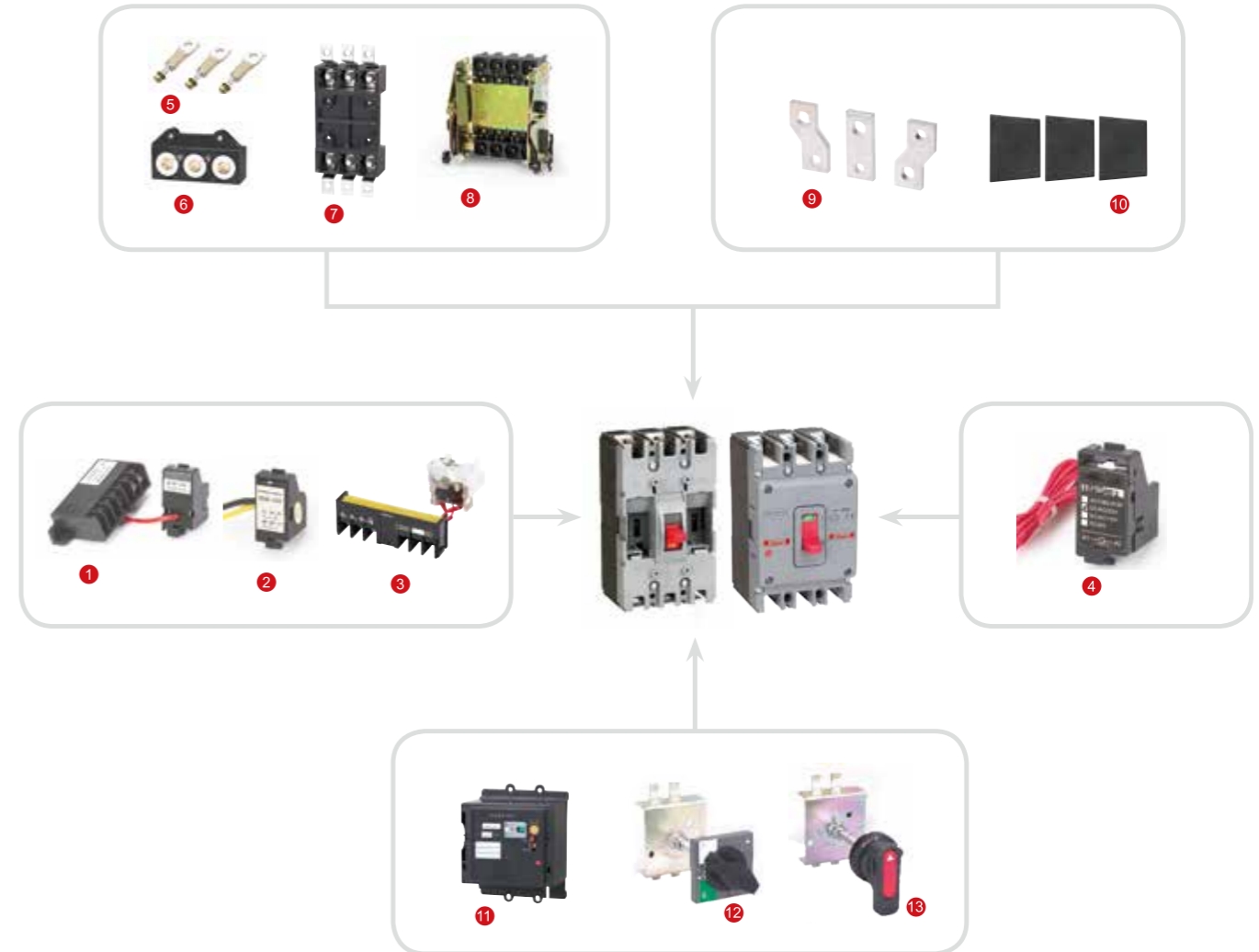
### 3 Series MCCB



#### 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 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 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 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 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 HDM3E-125/250	HDM3160AL1L	HDM3160AL1R	HDM3160AL2L	HDM3160AL2R3P	HDM3160AL2R4P
	HDM3160AL1L	—	HDM3160AL2L	—	—
HDM3-400/630 HDM3E-400/630/800	HDM3E400630AL1L	HDM3E400630AL1R	HDM3E400630AL2L	HDM3E400630AL2R3P	HDM3E400630AL2R4P
	HDM3E400630AL1L	—	HDM3E400630AL2L	—	—
HDM3-800 HDM3L-630	HDM3800AL1L	—	HDM3800AL2L	—	—

### 3 Series MCCB



Frame size	Auxiliary Alarm with wire		Auxiliary Alarm with Terminal		
	Left	Right	Left	Right 3P	Right 4P
HDM3-63 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 HDM3E-125/250	HDM3160OFAL1L	HDM3160OFAL1R	HDM3160OFAL2L	HDM3160OFAL2R3P	HDM3160OFAL2R4P
	HDM3160OFAL1L	—	HDM3160OFAL2L	—	—
HDM3-400/630 HDM3E-400/630/800	HDM3E400630OFAL1L	HDM3E400630OFAL1R	HDM3E400630OFAL2L	HDM3E400630OFAL2R3P	HDM3E400630OFAL2R4P
	HDM3E400630OFAL1L	—	HDM3E400630OFAL2L	—	—
HDM3-800 HDM3L-630	—	—	HDM3800OFAL2L	—	—



Frame size	Under voltage release with Terminal	
	Voltage	Left
HDM3-63 HDM3-100L/S	AC230V	HDM363MNA2L
	AC400V	HDM363MNA3L
HDM3-100M/F/T/N HDM3L-125	AC230V	HDM3100FNMNA2L
	AC400V	HDM3100FNMNA3L
HDM3-160/250 HDM3L-160/250 HDM3E-125/250	AC230V	HDM3E125250MNA2L
	AC400V	HDM3E125250MNA3L
HDM3-400/630 HDM3L-400 HDM3E-400/630/800	AC230V	HDM3E400630MNA2L
	AC400V	HDM3E400630MNA3L
HDM3-800 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 HDM3-100L/S	AC230V	HDM363MX1A2L	HDM363MX1A2	—	HDM363MX2A23P	HDM363MX2A24P
	AC400V	—	HDM363MX1A3	—	HDM363MX2A33P	HDM363MX2A34P
	DC24V	—	HDM363MX1D2	—	HDM363MX2D23P	HDM363MX2D24P
HDM3-100M/F/ 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 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 HDM3E- 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 HDM3-100L/S	Front connection	HDM363PFC3	HDM363PFC4	HDM363D1A2	HDM363D1A3	HDM363D2
	Rear connection	HDM363PRC3	HDM363PRC4			
HDM3-100M/F/T/N	Front connection	HDM3100FNPFC3	HDM3100FNPFC4	HDM3100FND1A2	HDM3100FND1A3	HDM3100FND2
	Rear connection	HDM3100FNPRC3	HDM3100FNPRC4			
HDM3-160/250L/S	Front connection	HDM3250SPFC3	HDM3250SPFC4	HDM3160SD1A2	HDM3160SD1A3	HDM3160SD2
	Rear connection	HDM3250SPRC3	HDM3250SPRC4			
HDM3-160/250M/F/T/N	Front connection	HDM3E125250PFC3	HDM3E125250PFC4	HDM3160FD1A2	HDM3160FD1A3	HDM3160FD2
	Rear connection	HDM3E125250PRC3	HDM3E125250PRC4			
HDM3E-125/250	Front connection	HDM3E125250PFC3	HDM3E125250PFC4	HDM3E125250D2	HDM3E125250D4	—
	Rear connection	HDM3E125250PRC3	HDM3E125250PRC4			
HDM3-400 HDM3E-400	Rear connection	HDM3E400PRC3	HDM3E400PRC4	HDM3400D1A2	HDM3400D1A3	HDM3400D2
HDM3-630 HDM3E-630	Rear connection	HDM3E630PRC3	HDM3E630PRC4	HDM3400D1A2	HDM3400D1A3	HDM3400D2
HDM3-800	Rear connection	HDM3800PRC3	HDM3800PRC4	HDM3800D1A2	HDM3800D1A3	—
HDM3E-800	Rear connection	HDM3E800PRC3	HDM3E800PRC4	HDM3E800D2	HDM3E800D4	—
HDM3-1250	—	—	—	HDM31250CD1A2	HDM31250CD1A3	—



Frame size	Draw-out		
	Connection type	3P	4P
HDM3-400 HDM3E-400	Horizontal connection	HDM3E400DOR3	HDM3E400DOR4
HDM3-630 HDM3E-630	Horizontal connection	HDM3E630DOR3	HDM3E630DOR4
HDM3E-800	Horizontal connection	HDM3E800DOR3	HDM3E800DOR4



### 3 Series MCCB



Frame size	Rotation Handle		
	Handle shape	Direct	Extended (Default 150mm)
HDM3-63 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 HDM3-100L/S	HDM363C3	HDM363C4	HDM363IB3	HDM363IB4
HDM3-100M/F/T/N HDM3L-125	HDM3100FNC3	HDM3100FNC4	HDM3100FNIB3	HDM3100FNIB4
HDM3-160/250L/S	HDM3160C3	HDM3160C4	HDM3160SIB3	HDM3160SIB4
HDM3-160/250M/F/T/N HDM3L-160/250 HDM3E-125/250	HDM3160C3	HDM3160C4	HDM3160FIB3	HDM3160FIB4
HDM3-400 HDM3L-400 HDM3E-400	HDM3400C3	HDM3400C4	HDM3400IB3	HDM3400IB4
HDM3-630 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 HDM3-100L/S	HDM363RC3	HDM363RC4
HDM3-100M/F/T/N HDM3L-125	HDM3100FNRC3	HDM3100FNRC4
HDM3-160/250 HDM3L-160/250 HDM3E-125/250	HDM3160RC3	HDM3160RC4
HDM3-400/630 HDM3L-400 HDM3E-400/630	HDM3400RC3	HDM3400RC4
HDM3-800 HDM3E-800	HDM3800RC3	HDM3800RC4
HDM3L-630	HDM3L630RC3	HDM3L630RC4

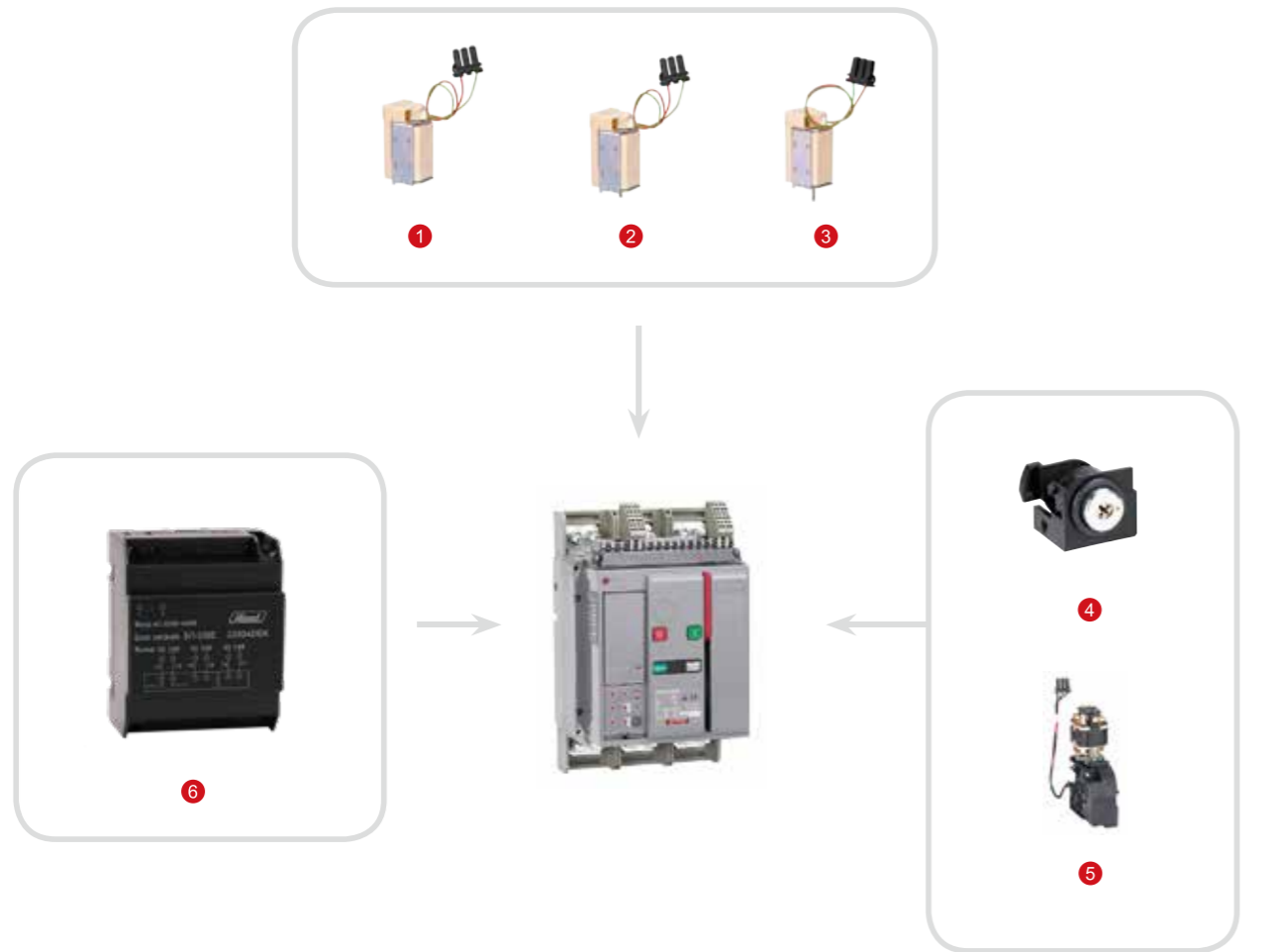
### 3 Series MCCB



#### 1600A HDM3E MCCB Selection Code

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

#### HDM3E 1600A Accessories



1	Close release	3	Undervoltage 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
<b>HDW3</b>	<b>16</b>	<b>M</b>	<b>16</b>	<b>3</b>	<b>FH</b>
<b>HDW3</b>	<b>16</b> : 1600 <b>20</b> : 2000 <b>32</b> : 3200 <b>40</b> : 4000 <b>63</b> : 6300	<b>M</b> : Icu≠Ics≠Icw <b>S</b> : Icu=Ics=Icw	<b>04</b> : 400A <b>06</b> : 630A <b>08</b> : 800A <b>10</b> : 1000A <b>12</b> : 1250A <b>16</b> : 1600A <b>20</b> : 2000A <b>25</b> : 2500A <b>32</b> : 3200A <b>40</b> : 4000A <b>50</b> : 5000A <b>63</b> : 6300A(only 3P)	<b>3</b> : 3P <b>4</b> : 4P	<b>DH</b> : Draw-out horizontal (1600AF~6300AF) <b>FH</b> : Fixed horizontal (1600AF~4000AF)
<b>5</b>	<b>5</b>	<b>5</b>	<b>4</b>	<b>M</b>	
<b>D</b> : DC220V <b>N</b> : AC230V <b>V</b> : AC400V <b>5</b> : Without MCH+XF	<b>D</b> : DC220V <b>N</b> : AC230V <b>V</b> : AC400V <b>5</b> : Without shunt release	<b>N</b> : AC230V <b>V</b> : AC400V <b>P</b> : with undervoltage delayed AC230V <b>T</b> : with undervoltage delayed AC400V <b>5</b> : Without undervoltage release	<b>4</b> : NO+4NC <b>6</b> : 6NO+6NC	<b>L</b> : iTR326(50Hz) <b>M</b> : iTR326A(50Hz) <b>H</b> : iTR326H((50/60Hz) <b>E</b> : iTR326(60Hz) <b>T</b> : iTR326A(60Hz)	

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

# HDW3 Air Circuit Breakers

Standard: IEC/EN IEC60947-2



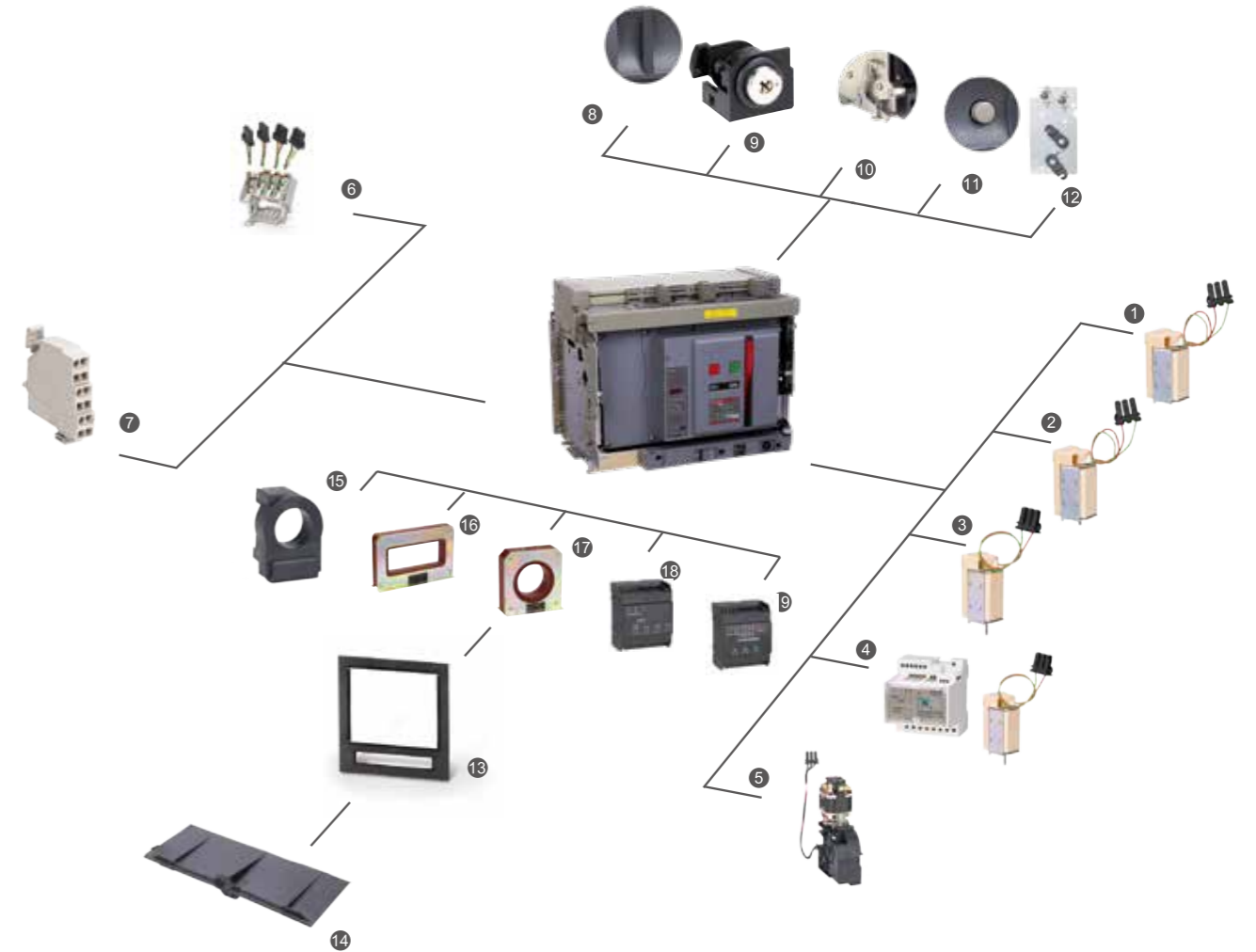
Technical Parameters											
Air Circuit Breakers		HDW3									
Frame size		1600M	1600S	2000M	2000S	3200M	3200S	4000M	4000S	6300M	6300S
Rated current		400, 630, 800, 1000, 1250, 1600		630, 800, 1000, 1250, 1600, 2000		2000, 2500, 3200		1600, 2000, 2500, 3200, 4000		4000, 5000, 6300 (3P only)	
<b>Breaking capacity</b>											
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	
<b>Dimension(mm)H*W*D</b>											
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		/	
<b>Weight(KG)</b>											
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		/	
<b>Tripping time</b>											
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
<b>Protection function</b>	Overload protection L Short-circuit protection with short delay S Short-circuit protection instantaneous I Ground protection G MCR Protection HSISC protection	Overload protection L Short-circuit protection with short delay S Short-circuit protection instantaneous I Ground protection G MCR protection HSISC protection	Overload protection L Short-circuit protection with short delay S Short-circuit protection instantaneous I Ground protection G MCR protection HSISC protection Under voltage protection/alarm Overvoltage protection/alarm voltage unbalance protection /alarm Phase sequence protection/alarm Low frequency protection/alarm High frequency protection/alarm Reverse power protection/alarm
<b>Measurement</b>		Current measurement	Current measurement Voltage measurement Power measurement Frequency measurement Harmonics measurement
<b>Auxiliary</b>	Pre-alarm Event record Test	Pre-alarm Self-diagnostic Event record Test	Pre-alarm Self-diagnostic Event record Test
<b>Display</b>		LED	LCD
<b>Special function</b>			Load monitoring Zone selective interlock
<b>Communication</b>			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.

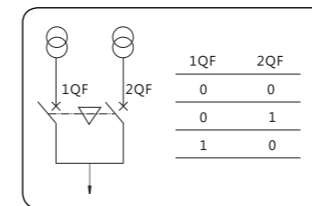
HDW3 ATSE can realize electrical parameters measurement and automatic control according to settings strategy reducing human operation errors.

## 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,

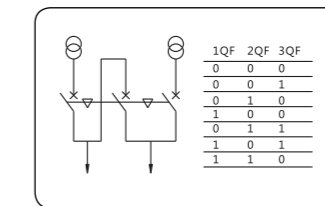
### Two Breaker Interlock C2

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.



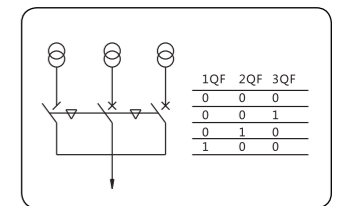
### Three Breaker Interlock C3

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.

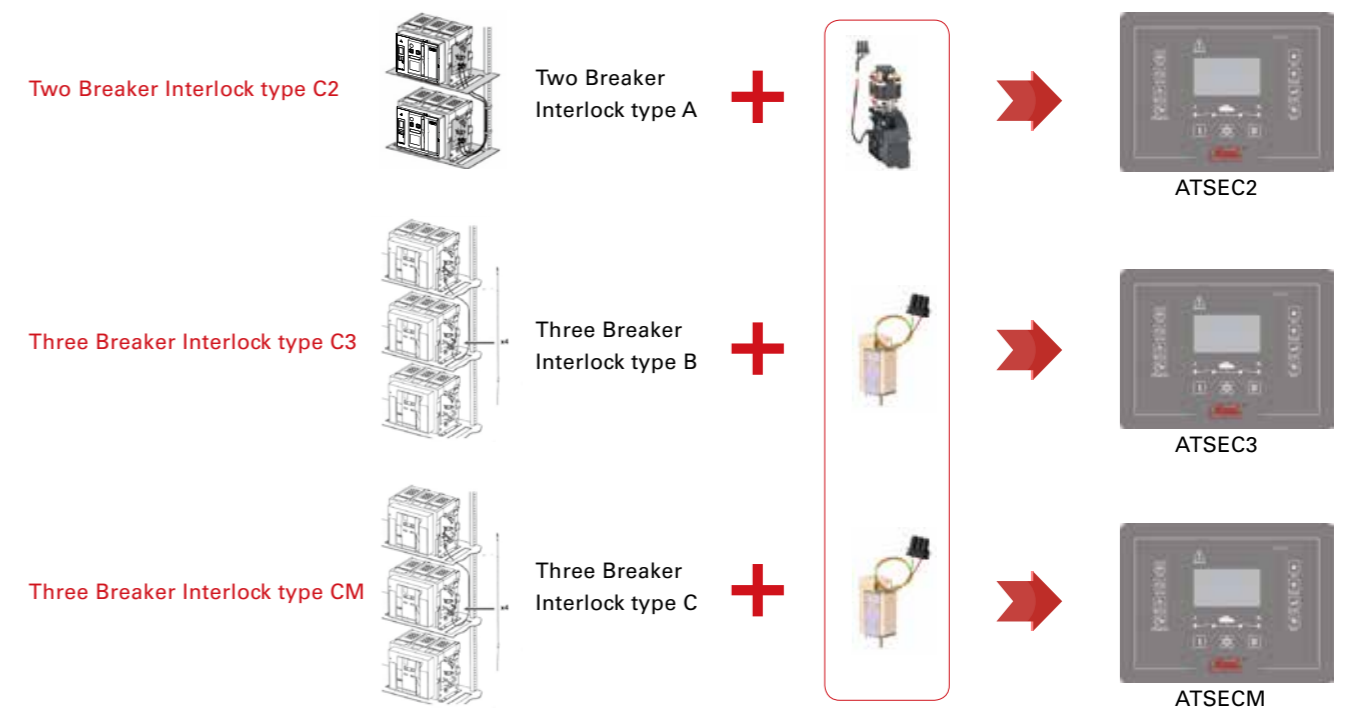


### Three Breaker Interlock type CM

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





## LOW VOLTAGE DISTRIBUTION

# 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
<b>HDGL</b>	<b>Z</b>	<b>160</b>	<b>3</b>	<b>J</b>	<b>K</b>	<b>100</b>
<b>HDGL</b>	<b>Default:</b> Normal type <b>Z:</b> Overlap type <b>ZC:</b> Symmetric type	<b>63:</b> 63A <b>100:</b> 100A <b>160:</b> 160A <b>250:</b> 250A <b>630:</b> 630A <b>1600:</b> 1600A <b>3150:</b> 3150A	<b>3:</b> 3P <b>4:</b> 4P	<b>Default:</b> no shaft <b>J:</b> External operation with extended shaft 300mm	<b>Default:</b> no window <b>K:</b> with observing window	<b>16:</b> 16A <b>25:</b> 25A <b>32:</b> 32A <b>40:</b> 40A <b>63:</b> 63A ... <b>2000:</b> 2000A <b>2500:</b> 2500A <b>3150:</b> 3150A



### Technical Parameters

Switch Disconnectors	HDGL							
Utilization Category	AC-22B							
Conventional free air thermal current (A)	16 25 32 40 63	80 100	100 125 160	200 250	315 400	500 630	800 1000 1250 1600	2000 2500 3150
Power frequency withstand voltage (V)	2000							
Rated insulation voltage (V)	800							
Rated impulse withstand 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

## LOW VOLTAGE DISTRIBUTION

# HDGL Switch Disconnectors

Standard: IEC60947-3

### Accessories Selection Code



HDGL1600OF11



HDGL3150OF11



HDGLZ(C)630OF11



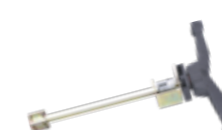
HDGL100J300



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 <b>00:</b> 00 <b>1:</b> 1 <b>2:</b> 2 <b>3:</b> 3	<b>2:</b> 2A <b>4:</b> 4A <b>6:</b> 6A ... <b>450:</b> 450A <b>500:</b> 500A <b>630:</b> 630A
<b>HRT16:</b> HRT16 Fuse Holder	<b>00:</b> rated current is 160A <b>1:</b> rated current is 250A <b>2:</b> rated current is 400A <b>3:</b> rated current is 630A	<b>ZS:</b> Resin Material

### HRT18 Selection Code

Range name	Fuse-link type	Rated operating current		
<b>HRT18</b>	<b>1038</b>	<b>2</b>		
<b>HRT18:</b> HRT18 Fuse	<b>1038:</b> maximum rating is 32A <b>1451:</b> maximum rating is 63A	<b>2:</b> 2A <b>4:</b> 4A ... <b>63:</b> 63A		
Range name	Rated current	Pole number	Indicator	Material
<b>HRT18</b>	<b>32Z</b>	<b>2</b>	<b>X</b>	<b>B</b>
<b>HRT18:</b> HRT18 Fuse Holder	<b>32Z:</b> 32A holder <b>63Z:</b> 63A holder	<b>Default:</b> 1P <b>2:</b> 2P <b>3:</b> 3P	<b>Default:</b> Without indicator <b>X:</b> With indicator	<b>Default:</b> Nylon (only available for 32A holder) <b>B:</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 ( I<sub>s</sub>≤5A )  
 Output loops: 4, 6, 8, 10, 12 loops

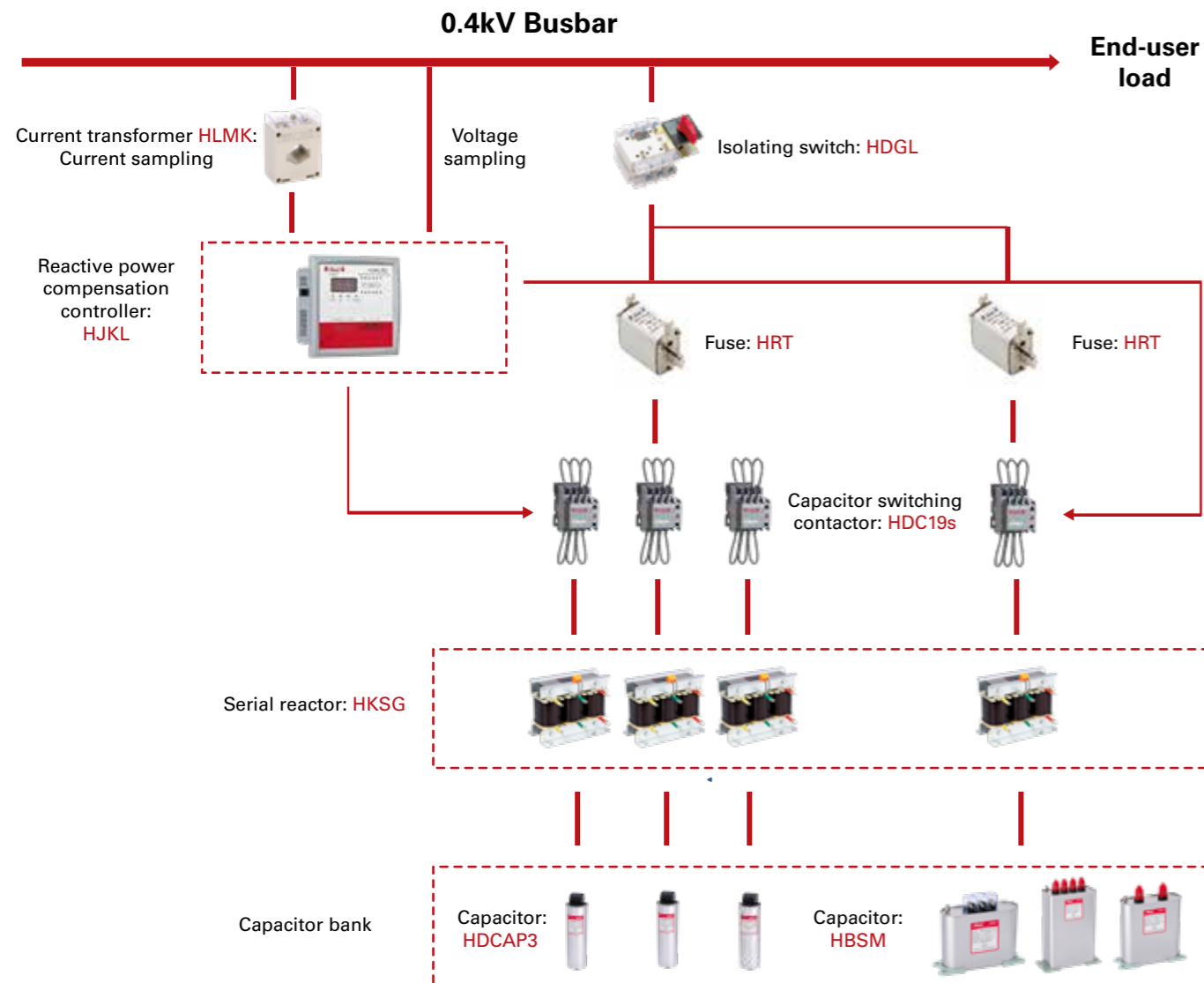
053

## 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 0450: 450V 0525: 525V	005: 5kvar 705: 7.5kvar 010: 10kvar 025: 25kvar 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 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 ≤90% at 20°C
Appearance	Cylinder
Inside Dipping Material	Polypropylene metallized film
Self discharge characteristic	The residual voltage reduces to 50V or below from $\sqrt{2}U_n$ after 3 minutes in case of power failure
Standard	IEC60831

## POWER FACTOR CORRECTION

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

### 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°C tan δ≤0.2%
Connection Type	Single-phase, three-phase, three-phase four-wire
Rated Frequency	50Hz
Ambient Temperature	-25°C ~ +50°C
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°C ≤90% at 20°C
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

## POWER FACTOR CORRECTION

# HBSM Low-voltage Capacitors

Standard: IEC60831

### HBSM Model Selection

Voltage (kV)	Single phase			Three-phase			Three-phase four-wire		
	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	Sampling voltage	Output loops	Circuit type	Enclosure material
<b>HJKL</b>	<b>2CM</b>	<b>4</b>	<b>DC</b>	<b>S</b>
<b>HJKL</b>	<b>2CM:</b> 220V <b>5CQ:</b> 380V	<b>4:</b> 4 loops <b>6:</b> 6 loops <b>8:</b> 8 loops <b>10:</b> 10 loops <b>12:</b> 12 loops	<b>Default:</b> AC circuit <b>DC:</b> DC 12V	<b>S:</b> Molded case

Technical Parameters		
Power Factor Correction Controllers	HJKL	
Category	Parameter value	Default Value
Sampling voltage	380V(HJKL5C)/ 220V(HJKL2C)±15%	
Sampling current	n/5A ( I≤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	Winding material	Rated capacity of the reactor	Rated volatge of the capacitor	Reactance ratio
<b>HKSG</b>	<b>L</b>	<b>1P0</b>	<b>G048</b>	<b>H7</b>
<b>HKSG</b>	<b>Default:</b> Copper windings <b>L:</b> Aluminum windings	<b>P6:</b> 0.6kvar <b>P7:</b> 0.7kvar <b>1P0:</b> 1kvar ... <b>9P8:</b> 9.8kvar	<b>G048:</b> 480V <b>G052:</b> 525V	<b>H7:</b> 7% <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 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 selected for different applications
- ◆ Manufactured on automated production line for better reliability.

### Selection Code

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

NEW

# 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 630A.

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

Note: 265-630A only wide coil voltage ratings available ( EHE7 , KUE7 , URE7 )

# 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		
<b>Main circuit characteristics</b>															
Conversional thermal current(Ith)	380/400V	A	25	25	25	32	40	50	50	60	80	80	125	125	
		A	6	9	12	18	25	32	38	40	50	65	80	95	
Rated operating current (Ie)		A	6	9	12	18	25	32	38	40	50	65	80	95	
Rated operating power(Pe) 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												
<b>Coil</b>															
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								
<b>Main circuit terminal wiring capability</b>															
Soft wire	1 wire	mm <sup>2</sup>	1...4			1.5...6			2.5..25			4...50			
	2 wire	mm <sup>2</sup>	1...4			1.5...6			2.5..16			4...25			
Hard wire	1 wire	mm <sup>2</sup>	1...4			1.5...6		1.5...10		2.5..25			4...50		
	2 wire	mm <sup>2</sup>	1...4			1.5...6		1.5...6		2.5..10			4...25		
<b>Auxiliary contact</b>															
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			
<b>Main circuit characteristics</b>													
Conversional thermal current(Ith)	380/400V	A	200	200	275	275	315	380	450	630	700		
		A	120	160	185	225	265	330	400	500	630		
Rated operating current (Ie)		A	120	160	185	225	265	330	400	500	630		
Rated operating power(Pe) 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 Durabilities	10k times		600										
Electrical Durabilities	AC-3	10k times	120			80			60				
Operation Frequency		Times/hour	120			600							
Number of Poles			3P										
Rated Insulation Voltage(Ui)	V		1000										
Maximum Rated Operating Voltage(Ue)	V		690										
Certificate			CB, CE, SEMKO										
<b>Coil</b>													
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								
<b>Main circuit terminal wiring capability</b>													
Soft wire	1 wire	mm <sup>2</sup>	10~240										
	2 wire	mm <sup>2</sup>	10~75										
Hard wire	1 wire	mm <sup>2</sup>	10-150						50-240				
	2 wire	mm <sup>2</sup>	10-75						50-240				
<b>Auxiliary contact</b>													
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		
<b>Main circuit characteristics</b>															
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	
<b>Thermal relay</b>															
HDR3s thermal relay 6-95 A		HDR3s-25 P16 : 0.1-0.16A P25 : 0.16-0.25A ..... 25 : 17-25A				HDR3s-38 32 : 23-32A 38 : 30-40A				HDR3s-95 40 : 30-40A 50 : 37-50A ..... 93 : 80-93A					
		Independent installation base				HJRS1D25J				HJRS1D38J				HJRS1D93J	
<b>Accessories</b>															
Top auxiliary contact		2 Poles : HF4-11, HF4-20, HF4-02 4 Poles : HF4-22, HF4-31, HF4-13, HF4-40, HF4-40													
Side auxiliary contact		2 Poles : HFC6-11, HFC6-20, HFC6-02													
Air delayed head		Making time delay : HFT6-20, HFT6-22, HFT6-24 Breaking time delay : HFT6-30, HFT6-32, HFT6-34													
Mechanical interlock		HDC3 09-32 horizontal installation : HRF6-32 HDC3 40-95 horizontal installation : HRF6-95													
Spear coil		HX3 + Contact AF + Ue + Hz EXP : HX395M7, HDC3 Coil 80-95A 220/230V 50/60Hz													

# HDC3 AC Contactors

Standard: IEC60947-4



Technical Parameter												
AC Contactors	HDC3											
Contactor model HDC3		120	160	185	225	265	330	400	500	630		
<b>Main circuit characteristics</b>												
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	
<b>Thermal relay</b>												
HDR3s thermal relay 120-630 A		HDR3s-185 95 : 75-95A 135 : 105-135A ..... 185 : 150-185A					HDR3s-630 200F : 145-200A 250F : 180-250A ..... 630F : 460-630A					
		<b>Accessories</b>										
Top auxiliary contact		2 Poles : HF4-11, HF4-20, HF4-02 4 Poles : HF4-22, HF4-31, HF4-13, HF4-40, HF4-40										
Side auxiliary contact		2 Poles : HF4-11										
Air delayed head		Making time delay : HFT6-20, HFT6-22, HFT6-24 Breaking time delay : HFT6-30, HFT6-32, HFT6-34										
Mechanical interlock		Consult us, available in 2021										
Spare coil		HX3 + Contact AF + Ue + Hz EXP : HX3120M, HDC3 Coil 120A 220 50Hz HX3160KUE7, HDC3 Coil 160A AC/DC100-250V 50/60Hz										

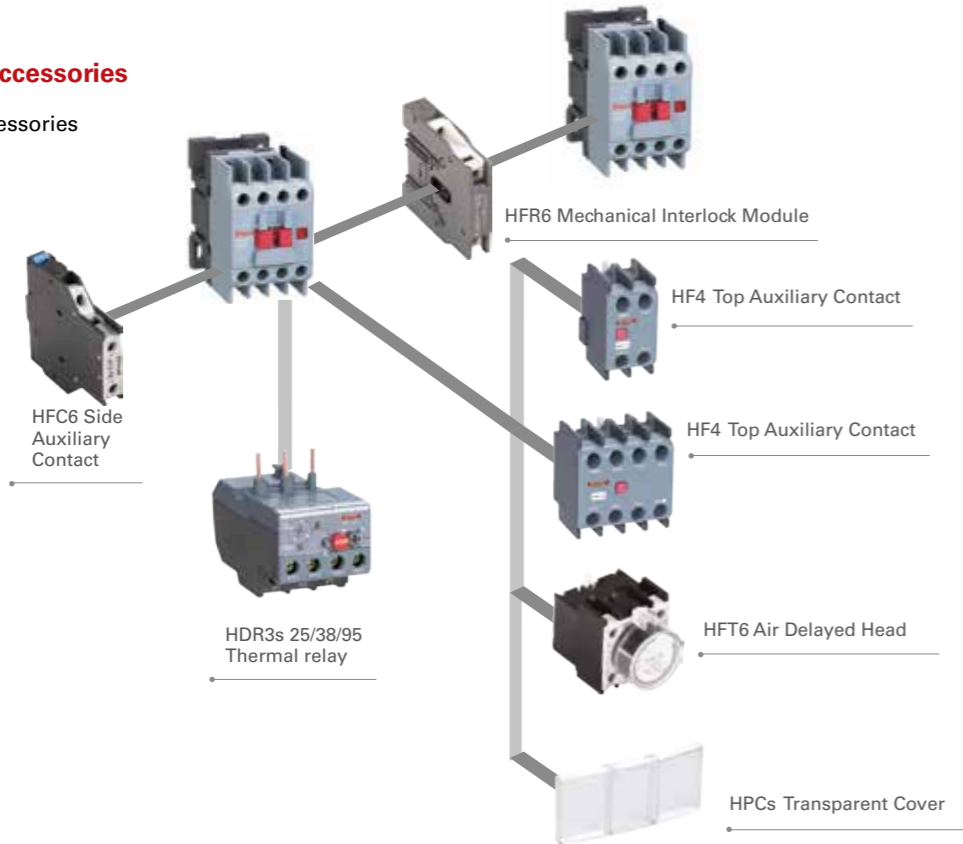
# HDC3 AC Contactors

Standard: IEC60947-4

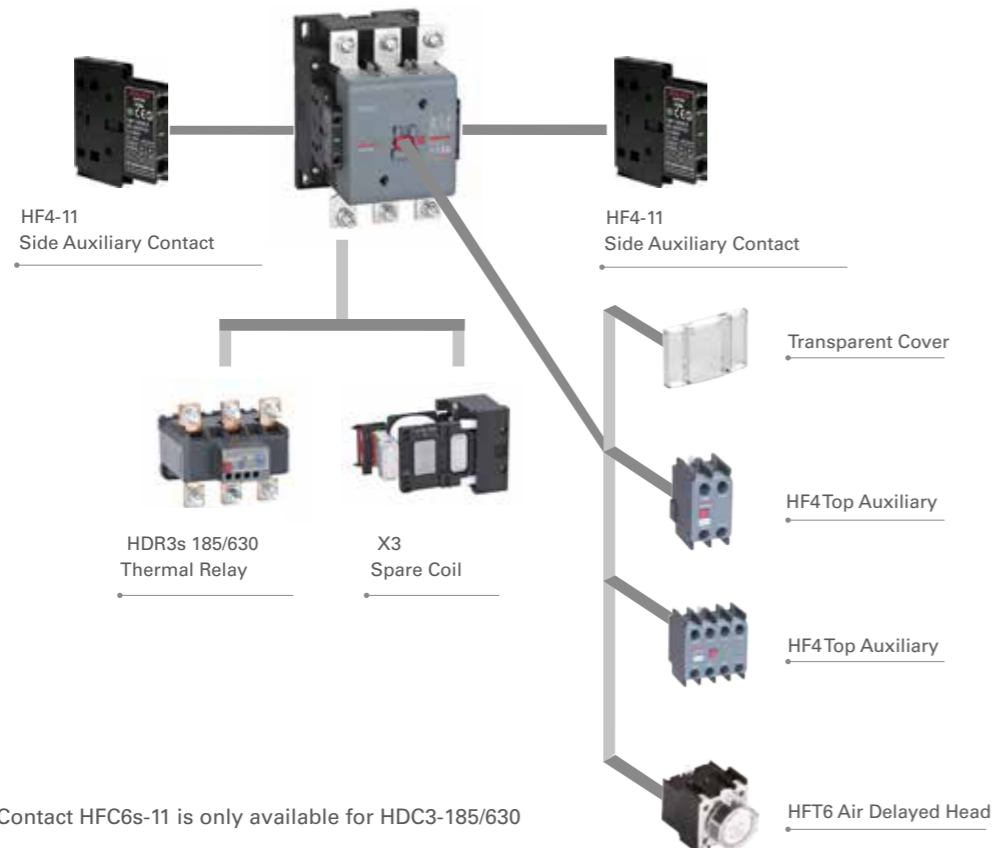


## Overview of Accessories

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	 2NC 1NO1NC 2NO	HF4 02
		1	1		HF4 11
		2	0		HF4 20
	4	0	4	 4NC1 1NO3NC 2NO2NC	HF4 04
		1	3		HF4 13
		2	2		HF4 22
3		1	HF4 31		
Side	2	0	2	 2NC 1NO1NC 2NO	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
Top	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
Mechanical interlock with electrical interlock	HDC3-40~95	HFR6 95 H

## MOTOR MANAGEMENT

# 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>
<b>HDR3s</b>	<b>25:</b> 25A	<b>P16:</b> 0.1- 0.16A ..... <b>25:</b> 17 - 25A
	<b>38:</b> 38A	<b>32:</b> 25 - 32A <b>40:</b> 32 - 38A
	<b>93:</b> 93A	<b>10:</b> 7.0- 10A ..... <b>93:</b> 80 - 93A
	<b>185:</b> 185A	<b>65:</b> 48-65A ..... <b>185:</b> 150-185A
	<b>630:</b> 630A	<b>200:</b> 145-200A ..... <b>630:</b> 460-630A

Technical Parameters				
<b>Thermal overload relay</b>	<b>HDR3s</b>			
<b>Main technical parameters</b>				
Temperature compensation	-5°C~+40°C			
HDR3s Thermal Relay	25	38	93	185
Trip level	10A		10	10A
Rated insulation voltage(Ui) V	660V		690V	
Base	HJRS1D25J	HJRS1D36J	HJRS1D93J	-
Certificate	CB, CE, SEMKO			
<b>Product features</b>				
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°			
<b>Auxiliary circuit 1NO+1NC</b>				
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>			

## MOTOR MANAGEMENT

# 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>
<b>HDC6</b>	<b>09:</b> 09A ..... <b>630:</b> 630A	<b>00:</b> 0NO+0NC <b>11:</b> 1NO+1NC	<b>B:</b> 24V <b>C:</b> 36V <b>E:</b> 48V <b>F:</b> 110V <b>S:</b> 127V <b>M:</b> 220/230V <b>U:</b> 240V <b>Q:</b> 380/400V <b>L:</b> 415V <b>X:</b> 440V	<b>Default:</b> 50Hz <b>7:</b> 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	
<b>Main circuit characteristics</b>											
Rated operating current (AC380V/400V)	le, AC-3 le, AC-4 le, AC-1	9A 3.5A 20A	12A 8.9A 20A	18A 12A 32A	25A 18A 40A	32A 21A 50A	40A 34A 60A	50A 39A 80A	65A 42A 80A	80A 49A 125A	95A 55A 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 380/400V 415/440V 660/690V	2.2kW 4kW 4kW 5.5kW	3kW 5.5kW 5.5kW 7.5kW	4kW 7.5kW 9kW 10kW	5.5kW 11kW 11kW 15kW	7.5kW 15kW 22kW 30kW	11kW 18.5kW 25kW 33kW	15kW 22kW 37kW 45kW	18.5kW 30kW 45kW 45kW	22kW 37kW 45kW 45kW	25kW 45kW 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
<b>Coil</b>											
Rated control circuit voltage (Us)	50/60Hz	24V, 48V, 110V, 220V, 230V, 240V, 380V, 400V									
Allowable control circuit voltage (Us)	Operation Drop-out	85%~110% Us 20%~75% Us									
Coil power	Actuation VA Holding VA Heat dissipation W	70 8 1.8~2.7			110 11 3~4			200 20 6~10			
<b>Terminal wiring ability</b>											
Soft wire without terminal block	1 pc (wire section mm <sup>2</sup> ) 2 pcs (wire section mm <sup>2</sup> )	1~4 1~4	1~4 1~4	1.5~6 1.5~6	1.5~10 1.5~6	2.5~10 2.5~10	2.5~25 2.5~16	2.5~25 2.5~16	2.5~25 2.5~16	4~50 4~25	4~50 4~25
Soft wire with terminal block	1 pc (wire section mm <sup>2</sup> ) 2 pcs (wire section mm <sup>2</sup> )	1~4 1~2.5	1~4 1~2.5	1~6 1~4	1~6 1~4	1~10 1.5~6	2.5~25 2.5~10	2.5~25 2.5~10	2.5~25 2.5~10	4~50 4~16	4~50 4~16
Hard wire without terminal block	1 pc (wire section mm <sup>2</sup> ) 2 pcs (wire section mm <sup>2</sup> )	1~4 1~4	1~4 1~4	1.5~6 1.5~6	1.5~6 1.5~6	1.5~10 2.5~10	2.5~25 2.5~16	2.5~25 2.5~16	2.5~25 2.5~16	4~50 4~25	4~50 4~25
<b>Auxiliary contact</b>											
Rated thermal current (Ith)	A	10									
Rated operating voltage (Ue)	ACV DCV	400 220									
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		
<b>Main circuit characteristics</b>											
Rated operating current (AC380V/400V)	le, AC-3 le, AC-4 le, AC-1	115A 52A 200A	150A 60A 250A	185A 79A 275A	225A 85A 315A	265A 105A 350A	330A 117A 400A	400A 138A 500A	500A 147A 630A	630A 188A 800A	
Rated insulation voltage (Ui)	1000V										
Rated operating voltage (Ue)	690V										
Number of pole	3										
Certificate	CE, SEMKO										
Rated operating power class AC-3	220/240V 380/400V 415/440V 660/690V	30kW 55kW 59kW 80kW	40kW 75kW 80kW 100kW	55kW 90kW 100kW 110kW	63kW 110kW 110kW 129kW	75kW 132kW 140kW 160kW	100kW 160kW 180kW 220kW	110kW 200kW 220kW 280kW	147kW 250kW 280kW 335kW	200kW 335kW 375kW 450kW	
AC-3	Electric durabilities (10 thousand times)	120	120	100	100	80	80	80	80	80	
	Operating Rate (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	
<b>Coil</b>											
Rated control circuit voltage (Us)	50Hz 50/60Hz	110V, 127V, 220V-230V, 240V, 380V-400V, 440V 110V, 220-230V, 240V, 380V-400V (115-225A), 110V, 127V, 220V-230V, 240V, 380V-400V, 440V(265-630A)									
Allowable control circuit voltage (Us)	Operation Drop-out	85%~110% Us 20%~75% Us									
Coil power	Actuation VA Holding VA Heat dissipation W	550 45 16	800 55 24	1200 13 12	1200 20 14	1250 24 18	1650 22 20				
<b>Terminal wiring ability</b>											
Fixed wire without terminal block	1 pc (wire section mm <sup>2</sup> ) 2 pcs (wire section mm <sup>2</sup> )	95 -	120 -	150 -	185 -	240 -	240 -	- 150	- 240	- -	
Copper bar	2 pcs (size mm <sup>2</sup> )	20*3	25*3	25*3	32*4	32*4	30*5	30*5	40*5	60*5	
<b>Auxiliary contact</b>											
Rated thermal current (Ith)	A	10									
Rated operating voltage (Ue)	ACV DCV	400 220									
Rated control capacity	AC-15 VA	360									



## MOTOR MANAGEMENT

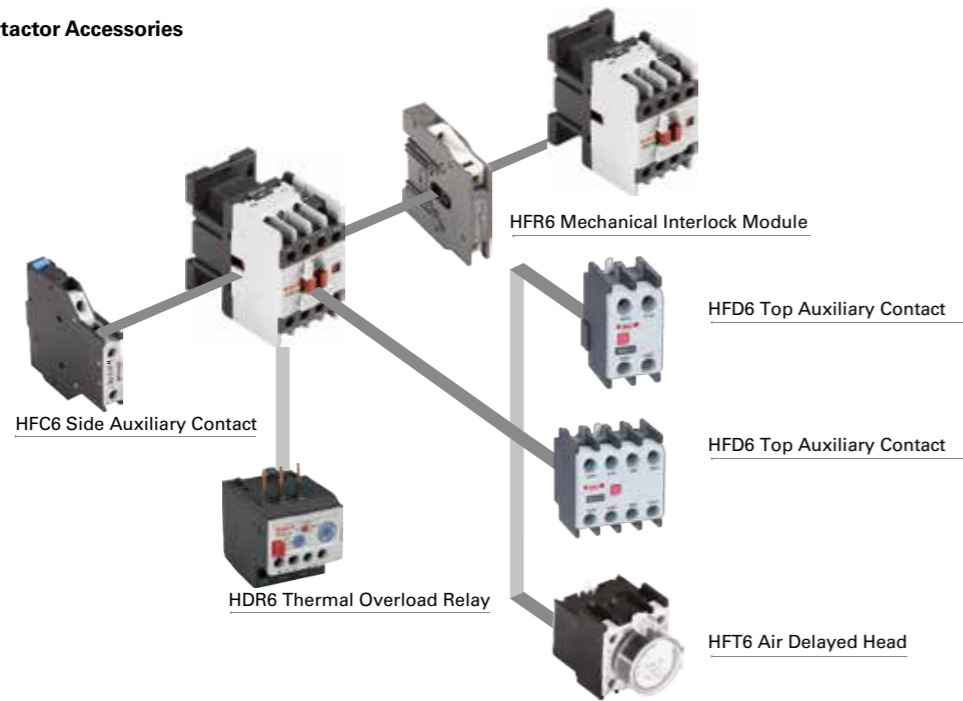
# HDC6 AC Contactors

Standard: IEC60947-4

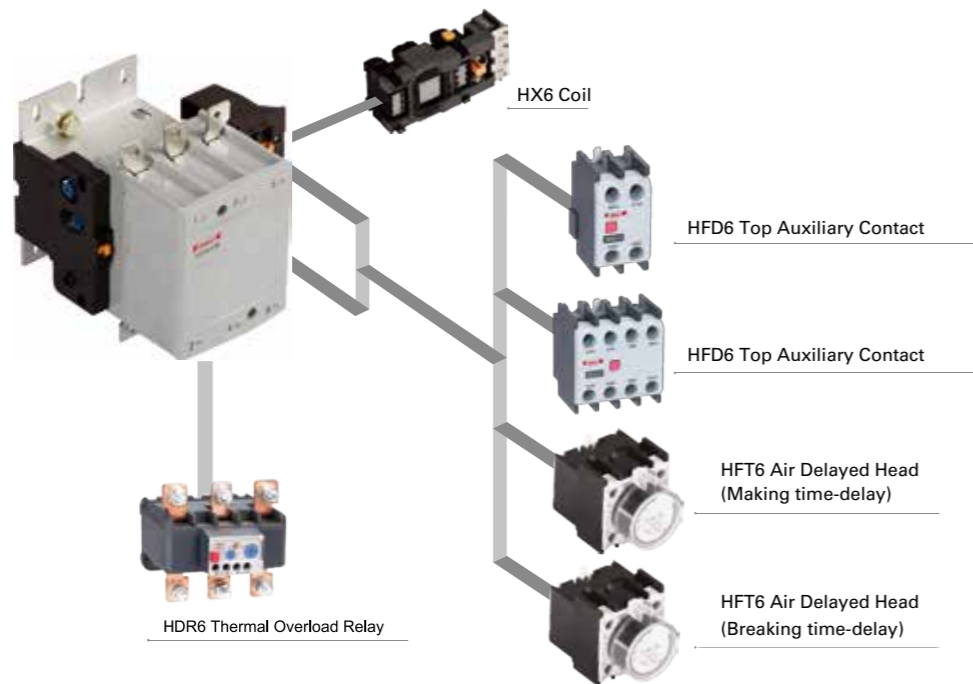


### Overview of Accessories

#### HDC6-9~95A Contactor Accessories



#### HDC6-115~630A Contactor Accessories



## MOTOR MANAGEMENT

# 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>	
<b>HDR6</b>	<b>18: 18A</b>	<b>P15:</b> 0.1-0.15A ..... <b>18:</b> 14-18A	<b>Default:</b> None <b>F:</b> Independent installation
	<b>32: 32A</b>	<b>9:</b> 6.3-9A ..... <b>32:</b> 23-32A	
	<b>95: 95A</b>	<b>25:</b> 18- 25A ..... <b>95:</b> 80-95A	
	<b>185: 185A</b>	<b>65:</b> 48-65A ..... <b>185:</b> 150-185A	
	<b>630: 630A</b>	<b>200:</b> 145-200A ..... <b>630:</b> 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	
Installation method	Assembly / Independent: HDR6-18~185	
	Independent: HDR6-630/F	
Certificate	CB, CE, SEMKO	
<b>Auxiliary circuit</b>		
Rated thermal current	6A	
Contact type	1NO+1NC	
Rated insulating voltage	690V	
	AC-15 220V/240V	1.64A
Control capacity	AC-15 380V/415V	0.95A
	DC-13 220V/240V	0.23A
Wiring ability	Wire section	1mm <sup>2</sup>

## MOTOR MANAGEMENT

# HJX2 4P AC Contactors

Standard: IEC60947-4



### Range Presentation

HJX2 & HJX2F 4P AC contactor 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 overload protection.

### Features

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

### Online Content



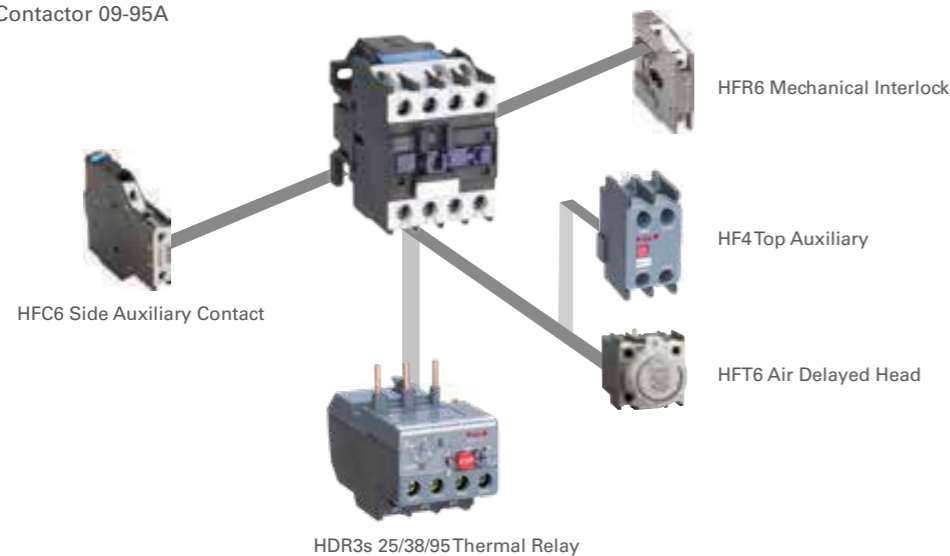
HJX2

### Selection Code

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

### Overview of Accessories

HJX2 4P AC Contactor 09-95A



## MOTOR MANAGEMENT

# 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
<b>Main circuit characteristics</b>									
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
Rated power of controlled 3-phase cage motor	660/690V AC-4 A	1.5	2	4.4	9	12	14	17.3	21.3
	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
Electric durabilities	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
	AC-3 ×10 <sup>4</sup> operations	100	100	100	80	80	80	60	60
Mechanical durabilities	AC-4 ×10 <sup>4</sup> operations	20	20	20	15	15	15	10	10
	×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							
<b>Coil</b>									
Coil voltage(Us)		V AC 24V, 36V, 110V, 220V, 380V							
Operating voltage		V 85%...110% Us							
Drop-out voltage		V 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
<b>Terminal wiring ability</b>									
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
<b>Auxiliary contact</b>									
Rated thermal Current (Ith)		A 10							
Rated operating Voltage (Ue)	AC	V 400							
	DC	V 220							
Rated control capacity	AC-15	VA 360							
	DC-13	VA 33							

## MOTOR MANAGEMENT

# 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 overload protection.

### Features

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

### Online Content



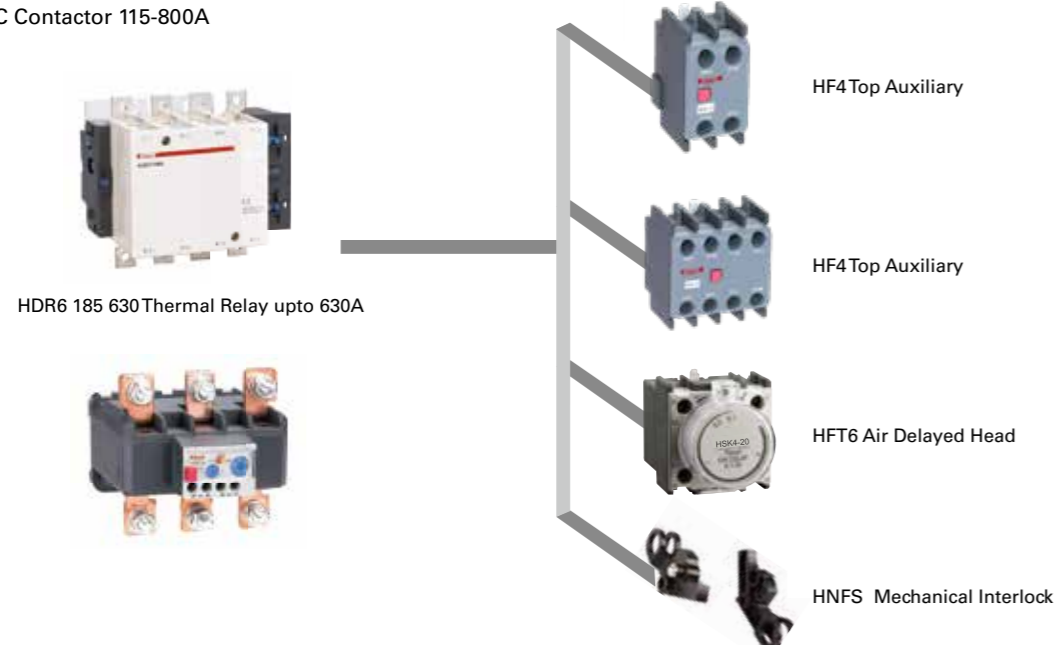
HJX2-F

### Selection Code

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

### Overview of Accessories

HJX2F 4P AC Contactor 115-800A



## MOTOR MANAGEMENT

# 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
<b>Main circuit characteristics</b>											
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 °C		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	AC-3 ×10 <sup>4</sup> operations	60	60	50	50	50	50	30	30	20	15
	AC-4 ×10 <sup>4</sup> operations	15	15	15	15	15	15	8	8	5	4
Mechanical durabilities	×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									
<b>Coil</b>											
Coil Voltage(Us)		V 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
<b>Terminal Wiring Ability - Main Circuit</b>											
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



## MOTOR MANAGEMENT

# HJSZ3 Electronic Timer Relays

Standard: IEC60947-4



### Range Presentation

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

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

### Features

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

Technical Parameters	
<b>Electronic Timer Relays</b>	
<b>HJSZ3</b>	
Condition	AC-15 400V/1.95A; 240V/1.5A; 120V/3.0A DC-13 250V/0.27A; 125V/0.55A
Repetitive error	≤5%
Rated thermal 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
Contact 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°C~+40°C
Installation mode	Din rail mounted, Panel mounted

## MOTOR MANAGEMENT

# 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
<b>HDZ9</b>	<b>05</b>	<b>2</b>	<b>D</b>	<b>L</b>	<b>M</b>	<b>R</b>
<b>HDZ9</b>	<b>03:</b> 3A <b>05:</b> 5A <b>10:</b> 10A	<b>2:</b> 2P <b>3:</b> 3P <b>4:</b> 4P	<b>Default:</b> AC <b>D:</b> DC	<b>Default:</b> None <b>L:</b> LED	<b>T:</b> 6V <b>J:</b> 12V <b>B:</b> 24V <b>C:</b> 36V <b>E:</b> 48V <b>F:</b> 110V <b>S:</b> 127V <b>M:</b> 220V <b>N:</b> 230V <b>U:</b> 240V <b>Q:</b> 380V	<b>Default:</b> Classic <b>R:</b> Rotary button

Technical Parameters	
<b>Miniature relays</b>	
<b>HDZ9</b>	
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°C )	DC: ≤75% (rated voltage), AC: ≤80% (rated voltage)
Release voltage (23°C )	DC: ≥10% (rated voltage), AC: ≥30% (rated voltage)
Maximum voltage (23°C )	110% (rated voltage)
Insulation resistance	≥100MΩ (500VDC)
Coil power	DC: 0.9W 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°C ~+55°C
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

## MOTOR MANAGEMENT

# 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
<b>HDC17K</b>	<b>06</b>	<b>30</b>	<b>10</b>	<b>M</b>	<b>5</b>
<b>HDC17K</b>	<b>06:</b> 06A <b>09:</b> 09A <b>12:</b> 12A	<b>30:</b> 3NO <b>40:</b> 4NO <b>22:</b> 2NO+2NC	<b>10:</b> 1NO <b>01:</b> 1NC	<b>B:</b> 24V <b>C:</b> 36V <b>F:</b> 110V <b>S:</b> 127V <b>M:</b> 220/230V <b>Q:</b> 380/400V	<b>7:</b> 50/60Hz

### Order Information

Motor P(kW) 380V	Rated 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*

## MOTOR MANAGEMENT

# HDC17K Miniature AC Contactors

Standard: IEC60947-4



Technical Parameters					
Miniature AC Contactors		HDC17-K06	HDC17-K09	HDC17-K12	
<b>Main circuit characteristics</b>					
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 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	x10 <sup>4</sup> operations	100		
Operating rate		cycles/h	1200		
Electric endurance	AC-4	x10 <sup>4</sup> operations	20		
Operating rate		cycles/h	600		
Mechanical endurance		x10 <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		
<b>Coil</b>					
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			
<b>Auxiliary contact</b>					
Rated conventional thermal current	V	690			
Rated insulation voltage	A	10			
Rated operating current		A	0.95		
	380V, AC-15	A	0.15		
	220V, DC-13	VA	360		
	AC-15	W	33		
Control capacity	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

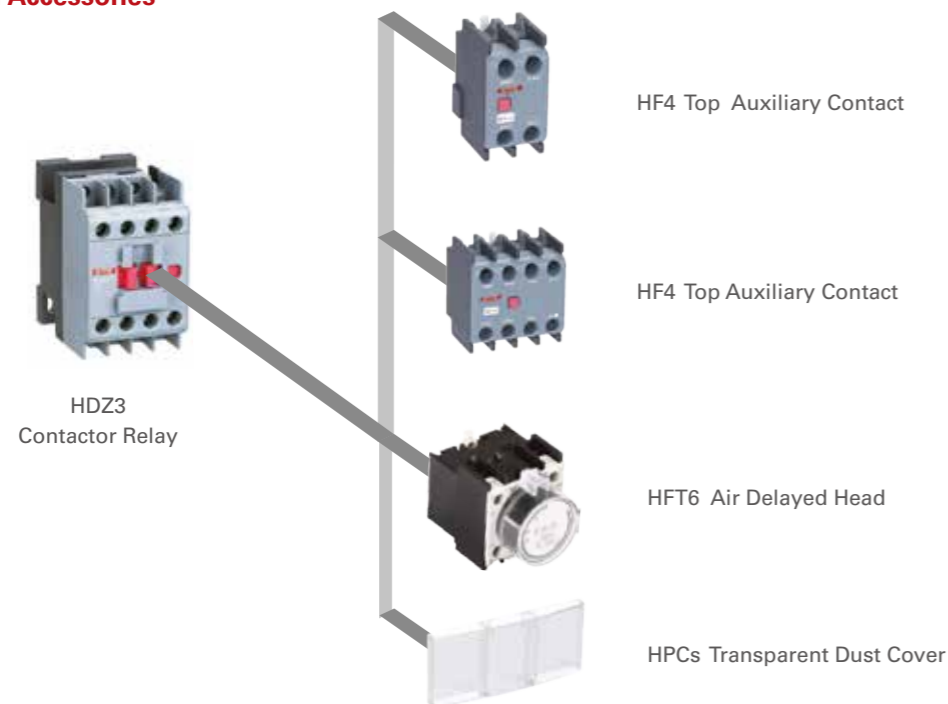


HDZ3

### Selection Code

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

### Overview of Accessories



## 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	

## 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

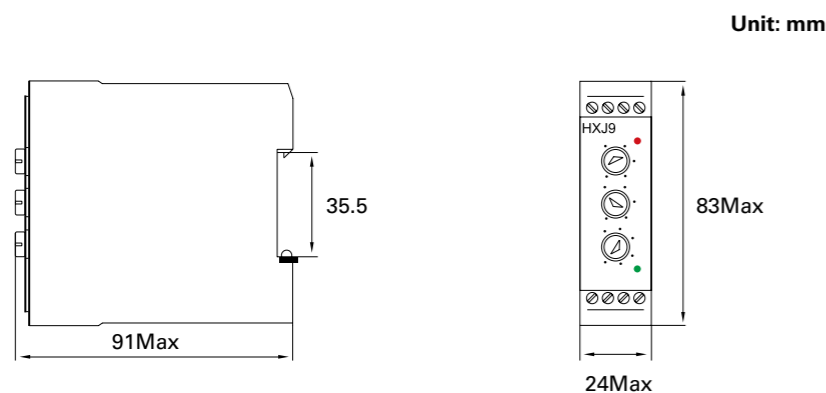
### Order Information

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
Contact mode	1 NO, 1NC
Contact endurance	5A Resistive
Power voltage	AC 400V
Mechanical lifetime	≥1 × 10 <sup>5</sup> times
Electrical lifetime	≥1 × 10 <sup>5</sup> times
Power loss	≤1W
Contact 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 ..... 32: 24-32A
HDP17Z	80: 80A	40: 25-40A 63: 40-63A 80: 56-80A

### Order Information

Thermal release Setting current	Magnetic release Current Id	400/415V, 50/60Hz, AC-3 Rated operating power	Recommended 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

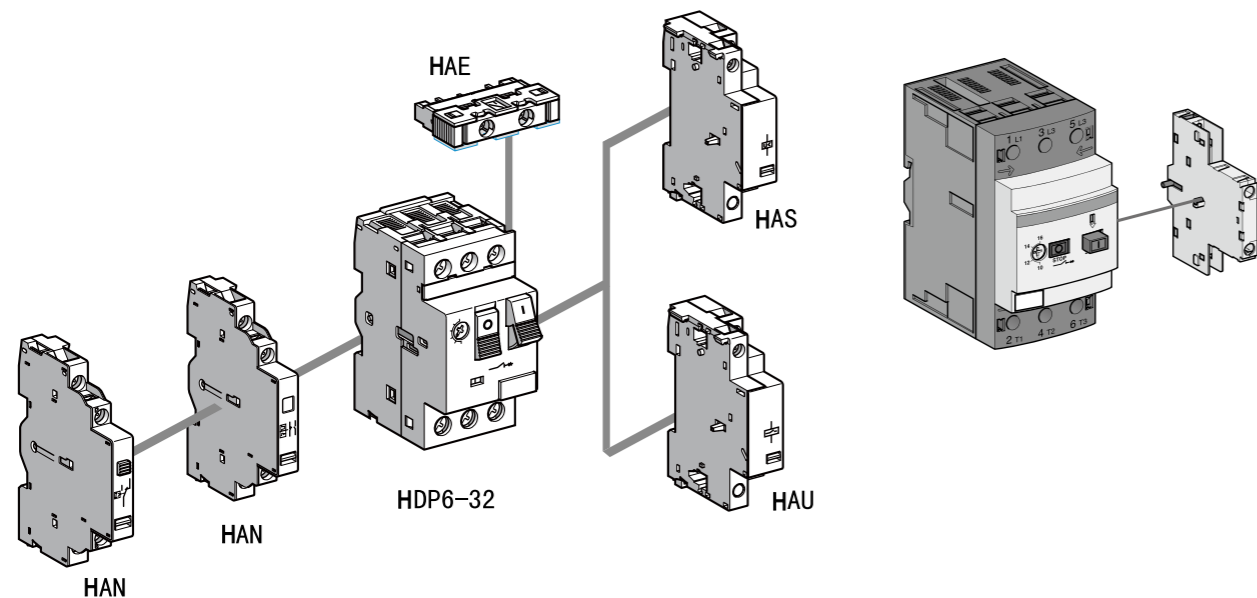


Technical Parameters		
Motor Circuit Breakers	HDP6-32	HDP17Z-80
Operation mode	Button operated	
Frame current	32A	80A
Rated impulse withstand voltage	6000V	
Maximum rated operating voltage	690V	
Rated insulation voltage	400/690V	
Rated operating frequency	50/60Hz	
Trip class	10A	
Fastening torque	1.7N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

### Overview of Accessories

HDP6-32

HDP17Z-80



## 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
<b>HDS3</b>	<b>38</b>	<b>B</b>	<b>09</b>	<b>M</b>	<b>7</b>	<b>P16</b>	
<b>HDS3</b>	<b>18:</b> 18A <b>38:</b> 38A <b>95:</b> 95A	<b>B:</b> with push button	<b>09:</b> 9A ..... <b>95:</b> 95A	<b>C:</b> 36V <b>F:</b> 110V <b>S:</b> 127V <b>M:</b> 220/230V <b>Q:</b> 380/400V <b>L:</b> 415V <b>X:</b> 440V	<b>7:</b> 50/60Hz	<b>P16:</b> 0.1-0.16A <b>1P6:</b> 1.0-1.6 A ..... <b>93:</b> 80-93A	<b>Default:</b> Plastic <b>M:</b> Metal

### Technical Parameters

Magnetic Starters	HDS3-18 Metal			HDS3-38 Metal			HDS3-95 Metal				
	HDS3-38 Plastic										
Rated operating 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 insulation 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°C~+40°C									
	Storage temperature	-25°C~+70°C									
	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°C. It is allowed to have a higher humidity under lower temperature, e.g. up to 90% at +25°C and the dew on the product due to the temperature change should be taken into consideration.										
	Installation condition	a. In a medium where is no explosion danger, and the medium has no place where can corrode metal and damage insulated gas and conductive dust; b. In a place where has snow-proof equipment and lack of water vapour; c. In a place without significant shock and vibration.									

# 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		
0.37	9	HDS3-18 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	
				1~1.6	1P6				HDS318B09*71P6M /HDS338B09*71P6	
0.75	12	HDS3-38 Plastic		1.6~2.5	2P5	HDC3-12A		HDR3s-3	HDS318B09*72P5M /HDS338B09*72P5	
1.5				2.5~4	4				HDS318B09*704M /HDS338B09*704	
2.2				4~6	6				HDS318B09*706M /HDS338B09*706	
3				5.5~8	8				HDS318B09*708M /HDS338B09*708	
4				7~10	10				HDS318B12*710M /HDS338B12*710	
5.5				9~13	13				HDS318B18*713M /HDS338B18*713	
7.5	25	HDS3-38 Metallic		12~18	18	HDC3-18A		HDR3s-3	HDS338B25*718M /HDS338B25*718	
11				17~25	25				HDS338B25*725M /HDS338B25*725	
15				23~32	32				HDC3-25A	HDS338B32*732M /HDS338B32*732
18.5	40	HDS3-95 Metallic		30~40	38	HDC3-32A		HDR3s-3	HDS338B38*740M /HDS338B38*740	
18.5				30~40	40				HDC3-38A	HDS395B40*740
22				37~50	50				HDC3-40A	HDS395B50*750
30				48~65	65				HDC3-50A	HDS395B65*765
37				63~80	80				HDC3-65A	HDS395B80*780
45				80~93	93				HDC3-80A	HDS395B95*793
	93A			80~93	93	HDC3-80A			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
<b>BASIC</b>																										
HAV-BA-2S																										
HAV-BA-4T																										
<b>EXPERT XC</b>																										
HAV-XC-2S																										
HAV-XC-4T																										
<b>EXPERT XS</b>																										
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 4: 380V – 440V  S: Single-phase T: Three-phase	0004: 0.4kW 0007: 0.75kW 0015: 1.5kW 0022: 2.2kW 0037: 3.7kW 0040: 4.0kW 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 4: 380V – 440V S: Single-phase T: Three-phase	0004: 0.4kW 0007: 0.75kW 0015: 1.5kW 0022: 2.2kW 0037: 3.7kW 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 4: 380V – 440V S: Single-phase T: Three-phase	0007: 0.75kW 0015: 1.5kW 0022: 2.2kW ..... 2500: 250kW 2800: 280kW	G: Heavy Duty	0055: 5.5kW 0075: 7.5kW 0110: 11kW ..... 2800: 280kW 3150: 315kW	P: Normal Duty 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%) 0.4-2.2kW	200V(-15%)-240V(+10%) 0.4-2.2kW	200V(-15%)-220V(+10%) 0.75-2.2kW	
	Three phase 200V Class	—	—	200V(-15%)-240V(+10%) 0.75-160kW	
	Three phase 400V Class	380V(-15%)-440V(+10%) 0.4-5.5kW	380V(-15%)-440V(+10%) 0.75-4kW	380V(-15%)-440V(+10%) 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				
	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 Pulse output max. 50kHz			
	I/O	AI1	V: 0-10V I: 0-20mA Resolution: 1/1000	V: 0-10V I: 0-20mA Resolution: 1/1000	V: 0-10V I: 0-20mA Resolution: 1/1000
		AI2	V: 0-10V Resolution: 1/1000		
AO1		V: 0-10V Resolution: 1/1000	V: 0-10V I: 0-20mA Resolution: 1/1000	V: 0-10V I: 0-20mA Resolution: 1/1000	
AO2		V: 0-10V I: 0-20mA Resolution: 1/1000	—		
RO(Ta, Tb, Tc)	NO: 24VDC 3A / 250VAC 5A 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) 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			
Velocity ratio	1:100			
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, 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 2T*: 0.75 - 22kW 4T*: 0.75 - 22kW	
		BASIC BA	HAV-BA-4T0040	2S*: 2.2kW 4S*: 4kW, 5.5kW	
	Dust Guaze	EXPERT XC	HAV-XC-4T0015-JFZ	2S*: 0.75 - 1.5kW 2T*: 0.75 - 1.5kW	
			HAV-XC-4T0040-JFZ	2S*: 2.2kW 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 4T*: 0.75 - 5.5kW	
		EXPERT XS	HAV-XS-FCT	2S*: 0.75 - 2.2kW 4T*: 4 - 7.5kW	

2S = 200-240V Single Phase, 2T = 200-240V Three Phase, 4T = 380-440V Three 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 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	
	Wall-mounting	Expert XS	HAV-XS-4T1600-QRZJ	4T*: 160 - 185kW	
			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 2T*: 4 - 7.5kW 4T*: 0.75kW ~ 280kW	
	External Keypad	BASIC BA	HAV-BA-LKD	2S*: 0.75 - 2.2kW 4T*: 0.75 - 5.5kW	
		EXPERT XC	HAV-XC-LKD	2S*: 0.40 - 2.2kW 4T*: 0.75 - 4.0kW	
		EXPERT XS	HAV-XS-LKD	2S*: 0.75 - 2.2 kW 2T*: 4 - 7.5kW 4T*: 0.75 - 280kW	
	2m and 5m keypad extension cable	BASIC EXPERT XC Expert XS	HAV-XS-CAB	2S*: 0.4 - 2.2 kW 2T*: 0.75 - 160kW 4T*: 0.75 - 280kW	

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



SMART 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 <b>4:</b> 380V – 440V <b>S:</b> Single-phase <b>T:</b> Three-phase	<b>0004:</b> 0.4kW <b>0007:</b> 0.75kW <b>0015:</b> 1.5kW <b>0022:</b> 2.2kW <b>0037:</b> 3.7kW <b>0040:</b> 4.0kW <b>0055:</b> 5.5kW	<b>G:</b> Heavy Duty

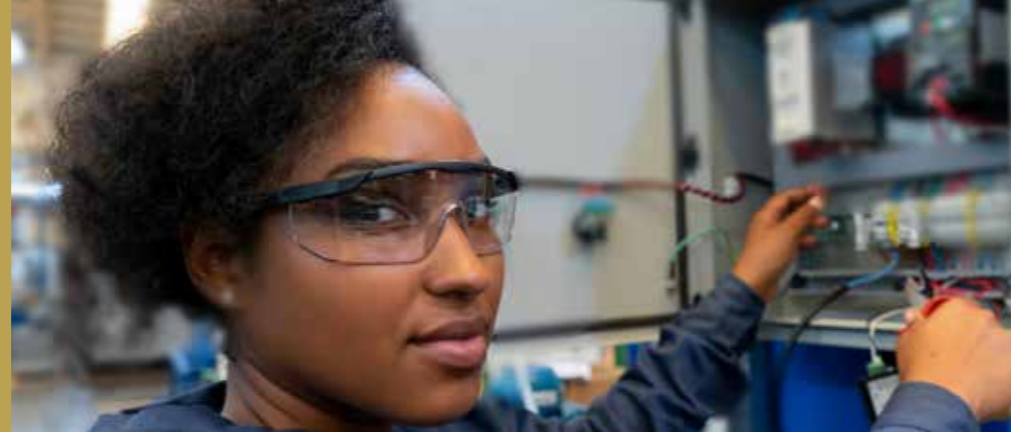
Technical Parameters		
Range name	SMART SS	
Target Application	Solar / Photovoltaic Pumps	
Capacity	DC/Single phase AC	DC: 150V-450V AC: 200V(-10%)-220V(+10%) 0.4-2.2kW
	DC/Three phase AC	DC: 250V-780V AC: 380V(-15%)-440V(+10%) 0.4-5.5kW
Frequency	Input frequency	50/60Hz
	Output frequency	0-650Hz
Overload 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	
I/O	Multistage speed control	Up to 16 stages in one cycle
	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
		Extend the above line
Options	Extension keypad	Support, cable length:2m, 5m
Installation Way	Wall mounted, cabinet, Din-rail	
Braking unit	Built-in	
Environment	Operation temperature	-10-40°C no derating, 40°C-50°C 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; 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	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

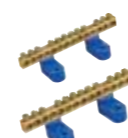
## HTB Copper Terminal Blocks



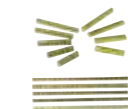
HTB010



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

## PANEL COMPONENTS

# 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
<b>HLAY5</b>	<b>BA</b>	<b>4</b>	<b>2</b>
	<b>HLAY5BA:</b> Metal Flush <b>HLAY5EA:</b> Plastic Flush	<b>1:</b> White <b>2:</b> Black <b>3:</b> Green <b>4:</b> Red <b>5:</b> Yellow <b>6:</b> Blue	<b>1:</b> 1NO <b>2:</b> 1NC <b>3:</b> 2NO <b>4:</b> 2NC <b>5:</b> 1NO+1NC
	<b>HLAY5BC:</b> Metal $\Phi$ 40 Mushroom <b>HLAY5EC:</b> Plastic $\Phi$ 40 Mushroom <b>HLAY5BR:</b> Metal $\Phi$ 60 Mushroom <b>HLAY5ER:</b> Plastic $\Phi$ 60 Mushroom	<b>3:</b> Green <b>4:</b> Red	<b>1:</b> 1NO <b>2:</b> 1NC <b>3:</b> 2NO <b>4:</b> 2NC <b>5:</b> 1NO+1NC
	<b>HLAY5BL832:</b> Metal Double-headed flush/flush <b>HLAY5BL842:</b> Metal Double-headed flush/projecting	<b>Default:</b> Green and Red	<b>5:</b> 1NO+1NC

Range Name	Type	Diameter of Push	Color	Contacts
<b>HLAY5</b>	<b>BS</b>	<b>5</b>	<b>4</b>	<b>2</b>
	<b>HLAY5BS:</b> Metal Emergency stop pushbuttons, turn to release <b>HLAY5ES:</b> Plastic Emergency stop pushbuttons, turn to release	<b>4:</b> $\Phi$ 30 <b>5:</b> $\Phi$ 40 <b>6:</b> $\Phi$ 60	<b>3:</b> Green <b>4:</b> Red	<b>1:</b> 1NO <b>2:</b> 1NC <b>3:</b> 2NO <b>4:</b> 2NC <b>5:</b> 1NO+1NC




## PANEL COMPONENTS

# HLAY5 Pushbuttons, Switches and Pilot Lights


Standard: IEC 60947-5-1



### Selection Code

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

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

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



## PANEL COMPONENTS

# HLAY5 Pushbuttons, Switches and Pilot Lights

Standard: IEC 60947-5-1



### Selection Code

Range Name  
**HLAY5**

Type  
**BE10**

Contacts  
**1**



**HLAY5BE10:** Contact blocks

**1:** 1NO  
**2:** 1NC  
**3:** 2NO  
**4:** 2NC  
**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)						
<b>Illuminated pushbutton</b>							
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

## PANEL COMPONENTS

# 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)
<b>HLAY5</b>	<b>CS</b>	<b>P</b>	<b>1</b>	<b>1</b>	<b>B</b>	<b>A</b>
<b>HLAY5</b>	<b>CS:</b> Control station	<b>P:</b> Plastic	<b>1:</b> 1-hole <b>2:</b> 2-hole <b>3:</b> 3-hole <b>4:</b> 4-hole <b>5:</b> 5-hole	<b>1:</b> White <b>5:</b> Yellow	<b>B:</b> Metal <b>E:</b> Plastic	<b>Default:</b> Empty enclosures <b>A:</b> Flush <b>S:</b> Emergency stop pushbuttons, turn to release

### Technical Parameters

Control Stations		HLAY5CS	
<b>Main</b>			
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)	
<b>Complementary</b>			
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	
<b>Environment</b>			
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
<b>HLAY7</b>	<b>BN</b>	<b>11</b>	<b>3</b>	<b>2</b>
	<b>HLAY7**BN:</b> Flush, spring return	<b>10:</b> 1NO <b>01:</b> 1NC <b>20:</b> 2NO <b>02:</b> 2NC <b>11:</b> 1NO+1NC	<b>1:</b> White <b>2:</b> Black <b>3:</b> Green <b>4:</b> Red <b>5:</b> Yellow <b>6:</b> Blue	<b>2:</b> Ø22 <b>3:</b> Ø25 <b>4:</b> Ø30
 	<b>HLAY7**BNZS:</b> Flush, push-push <b>HLAY7**GN:</b> Projecting, spring return <b>HLAY7**GNZS:</b> Projecting, push-push <b>HLAY7**JN:</b> Recessed (high guard)		<b>3:</b> Green <b>4:</b> Red	
 	<b>HLAY7**M:</b> Ø 40 Mushroom, spring return <b>HLAY7**MZS:</b> Ø 40 Mushroom, push-push <b>HLAY7**ZS:</b> Ø 40 Emergency stop pushbuttons, turn to release		<b>3:</b> Green <b>4:</b> Red	

Range Name	Type	Contacts	Number and Type of Positions	Color	Drilling or cut-out for mounting
<b>HLAY7</b>	<b>XB</b>	<b>11</b>	<b>20</b>	<b>2</b>	<b>2</b>
 	<b>HLAY7**X:</b> Selector switches with standard handle <b>HLAY7**XB:</b> Selector switches with long handle <b>HLAY7**Y:</b> Key switches	<b>10:</b> 1NO <b>01:</b> 1NC <b>20:</b> 2NO <b>02:</b> 2NC <b>11:</b> 1NO+1NC	<b>20:</b> 2p, stay put <b>21:</b> 2p, spring return from right to center <b>30:</b> 3p, stay put <b>31:</b> 3p, spring return from right to center <b>33:</b> 3p, spring return to center	<b>2:</b> Black <b>3:</b> Green <b>4:</b> Red <b>0:</b> for Key switches	<b>2:</b> Ø22 <b>3:</b> Ø25 <b>4:</b> 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
<b>HLAY7</b>	<b>DZS</b>	<b>11</b>	<b>4</b>	<b>M</b>	<b>2</b>	<b>L</b>
 	<b>HLAY7**D:</b> Illuminated projecting, spring return <b>HLAY7**DZS:</b> Illuminated projecting, push-push	<b>10:</b> 1NO <b>01:</b> 1NC <b>20:</b> 2NO <b>02:</b> 2NC <b>11:</b> 1NO+1NC	<b>3:</b> Green <b>4:</b> Red <b>5:</b> Yellow <b>6:</b> Blue <b>7:</b> Pure white <b>8:</b> Pure blue	<b>T:</b> 6V <b>B:</b> 24V <b>F:</b> 110V <b>M:</b> 220V <b>Q:</b> 380V	<b>2:</b> Ø22 <b>3:</b> Ø25 <b>4:</b> Ø30	<b>L:</b> LED
 	<b>HLAY7**DM:</b> Illuminated mushroom, spring return <b>HLAY7**DMZS:</b> Illuminated mushroom, push-push		<b>3:</b> Green <b>4:</b> Red			

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

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

## PANEL COMPONENTS

# HLAY7 Pushbuttons, Switches and Pilot Lights

Standard: IEC 60947-5-1



### Selection Code

Range Name	Type	Contacts
<b>HLAY7</b>	<b>BE10</b>	<b>1</b>



HLAY7BE10: Contact blocks

- 1: 1NO
- 2: 1NC
- 3: 2NO
- 4: 2NC
- 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 thermal 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
<b>HLD11</b>	<b>22</b>	<b>D</b>	<b>4</b>	<b>1</b>	<b>M</b>	<b>4</b>
	22: Ø22	A: Full cover head & long terminal	2: Resistance type 4: Capacitance type	1: Circular	T: AC/DC 6V J: AC/DC 12V B: AC/DC 24V F: AC/DC 110V M: AC/DC 220V N: AC 230V Q: AC 380V	7: White 3: Green 4: Red 5: Yellow 8: Blue
	22: Ø22	B: Half cover head & long terminal	2: Resistance type 4: Capacitance type	1: Circular	T: AC/DC 6V J: AC/DC 12V B: AC/DC 24V F: AC/DC 110V M: AC/DC 220V N: AC 230V Q: AC 380V	7: White 3: Green 4: Red 5: Yellow 8: Blue
	22: Ø22	C: Full cover head & short terminal	2: Resistance type 4: Capacitance type	1: Circular	T: AC/DC 6V J: AC/DC 12V B: AC/DC 24V F: AC/DC 110V M: AC 220V N: AC 230V Q: AC 380V	7: White 3: Green 4: Red 5: Yellow 8: Blue
	22: Ø22	D: Half cover head & short terminal	2: Resistance type 4: Capacitance type	1: Circular	T: AC/DC 6V J: AC/DC 12V B: AC/DC 24V F: AC/DC 110V M: AC 220V N: AC 230V Q: AC 380V	7: White 3: Green 4: Red 5: Yellow 8: Blue

### Technical Parameters

Pilot Lights	HLD11	
Rated voltage	AC/DC (Resistance type) A2,B2: 6V,12V,24V,36V,48V,110V,220V, C2,D2: 6V,12V,24V,36V,48V,110V	AC (Capacitance type) A4,B4,C4,D4: 220V,230V,380V
Rated current (mA)	≤50	≤20
Working life (H)	30000	
Brightness of light (cd/m <sup>2</sup> )	≥40	
Power frequency withstand voltage	2500V AC 1min	
Degree of protection	IP65	

## PANEL COMPONENTS

# 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.

### Features

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

### Selection Code

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

## PANEL COMPONENTS

# Industrial Plugs & Sockets


Standard: IEC 60309-1-2



**HDSF:** Fixed industrial sockets



<b>3:</b> 2P+E  	<b>16:</b> 16A <b>32:</b> 32A	<b>IP44:</b> IP44	1: 110~130V	HDSF316IP441 HDSF332IP441
			Default: 230~250V	HDSF316IP44 HDSF332IP44
			Default: 400~415V	HDSF416IP44 HDSF432IP44
			Default: 230~400V	HDSF516IP44
			Default: 240~415V	HDSF532IP44
<b>3:</b> 2P+E  	<b>63:</b> 63A <b>125:</b> 125A	<b>IP67:</b> IP67	1: 110~130V	HDSF316IP441 HDSF332IP441
			Default: 230~250V	HDSF316IP44 HDSF332IP44
			Default: 400~415V	HDSF416IP44 HDSF432IP44
			Default: 230~400V	HDSF516IP44
			Default: 240~415V	HDSF532IP44

Range Name	Input&output	Rated current	Rated voltage	Reference	Pole no.
<b>HDPS</b>	<b>3</b>	<b>16</b>	<b>230</b>		
<b>HDPS:</b> Multi-function plugs and sockets 	3: 1 Plug & 2 Sockets	<b>16:</b> 16A	<b>230:</b> 230V <b>110:</b> 110V	HDPS316230 HDPS316110	2P+E
	4: 1 Plug & 3 Sockets		<b>230:</b> 230V <b>110:</b> 110V	HDPS416230 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 Brass Terminal 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)
<b>HTB</b>	<b>010</b>	<b>0609</b>	<b>W4</b>	<b>Y</b>				
	010: 010 typ	0609: 6mm*9mm	W4: 4 holes	Y: Yellow	HTB0100609W4*	5.2	35x7.5	88.5x12.1
			W6: 6 holes	B: Blue	HTB0100609W6*			88.5x12.1
			W8: 8 holes		HTB0100609W8*			88.5x12.1
			W10: 10 holes		HTB0100609W10*			88.5x12.1
			W12: 12 holes		HTB0100609W12*			90.5x12.1
			W14: 14 holes		HTB0100609W14*			103.5x12.1
	W16: 16 holes		HTB0100609W16*	116.5x12.1				
	0812: 8mm*12mm	W4: 4 holes	Y: Yellow	HTB0100812W4*	6	88.5x12.1		
		W6: 6 holes	B: Blue	HTB0100812W6*		88.5x12.1		
		W8: 8 holes		HTB0100812W8*		88.5x12.1		
		W10: 10 holes		HTB0100812W10*		88.5x12.1		
		W12: 12 holes		HTB0100812W12*		102.5x12.1		
W14: 14 holes			HTB0100812W14*	117.5x12.1				
W16: 16 holes		HTB0100812W16*	132x12.1					

Range name	Type	Cross section	Number of holes	*Color of holder	Reference	Hole diameter (mm)	Installation dimension (mm)	Overall dimension (mm)			
<b>HTB</b>	<b>019</b>	<b>0609</b>	<b>W4</b>	<b>B</b>							
	019: 019 type	0609: 6mm*9mm	W4: 4 holes	B: Blue	HTB0190609W4*	5.2	64.5	76.5x12.5			
			W6: 6 holes	G: Green	HTB0190609W6*			77.5	89.5x12.5		
			W8: 8 holes		HTB0190609W8*			90.5	102.5x12.5		
			W10: 10 holes		HTB0190609W10*			103.5	115.5x12.5		
			W12: 12 holes		HTB0190609W12*			116.5	128.5x12.5		
			W14: 14 holes		HTB0190609W14*			129.5	141.5x12.5		
			W16: 16 holes		HTB0190609W16*			142.5	154.5x12.5		
			0812: 8mm*12mm	W4: 4 holes	B: Blue			HTB0190812W4*	6	71.5	84.5x12.5
				W6: 6 holes	G: Green			HTB0190812W6*		86.5	99.5x12.5
				W8: 8 holes				HTB0190812W8*		101.5	114.5x12.5
				W10: 10 holes				HTB0190812W10*		116.5	129.5x12.5
				W12: 12 holes				HTB0190812W12*		131.5	144.5x12.5
	W14: 14 holes			HTB0190812W14*	146.5	159.5x12.5					
	W16: 16 holes		HTB0190812W16*	161.5	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)
<b>HTB</b>	<b>007</b>	<b>0609</b>	<b>W6</b>	<b>B</b>				
	007: 007 type	0609: 6mm*9mm	W6: 6 holes	B: Blue	HTB0070609W6*	5.2	44.5	58.5x29
			W8: 8 holes	G: Green	HTB0070609W8*			65.5x29
			W10: 10 holes		HTB0070609W10*			78.5x29
			W12: 12 holes		HTB0070609W12*			91.5x29
			W14: 14 holes		HTB0070609W14*			104.5x29
			W16: 16 holes		HTB0070609W16*			117.5x29
	0812: 8mm*12mm	W6: 6 holes	B: Blue	HTB0070812W6*	6	52.5	68.5x28.5	
		W8: 8 holes	G: Green	HTB0070812W8*			77.5x28.5	
		W10: 10 holes		HTB0070812W10*			92.5x28.5	
		W12: 12 holes		HTB0070812W12*			107.5x28.5	
		W14: 14 holes		HTB0070812W14*			122.5x28.5	
		W16: 16 holes		HTB0070812W16*			137.5x28.5	

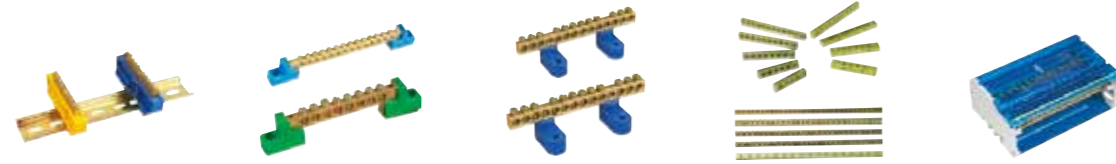
Range name	Type	Cross section	Number of holes	Reference	Hole diameter (mm)	Screw dimension (mm)
<b>HTB</b>	<b>043</b>	<b>1616</b>	<b>W078</b>			
	043: 043 type	1616: 16x16	W78: 78 holes	HTB0431616W078	9	M6*12
		1414: 14x14	W109: 109 holes	HTB0431414W109	7	M6*12
		1010: 10x10	W116: 116 holes	HTB0431010W116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

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

## PANEL COMPONENTS

# HTB Brass Terminal Blocks

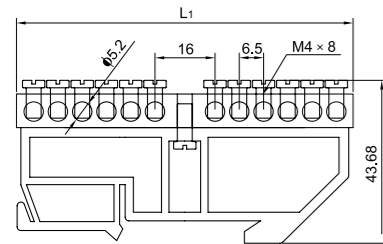
Standard: EN 61439-6



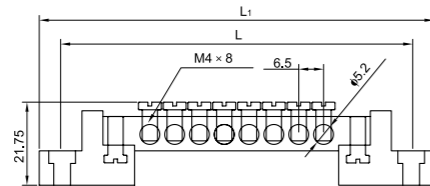
### Technical Parameters

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

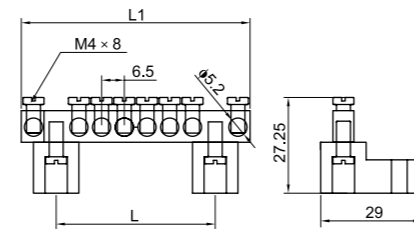
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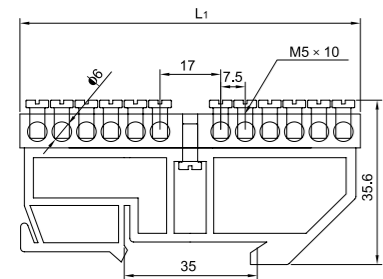
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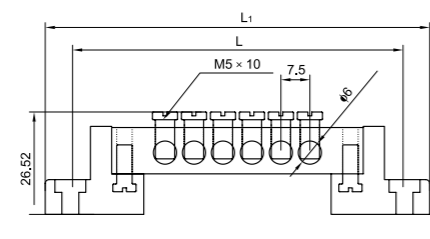
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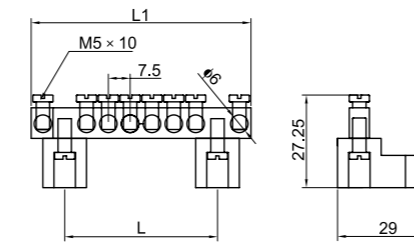
HTB0070609



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> Metric		12:12	IP68	B: Black W: Gray	HCFMG12IP68B	HCFMG12IP68W	7.6-4.6	12.5	8.5	18/19
		16:16			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> 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

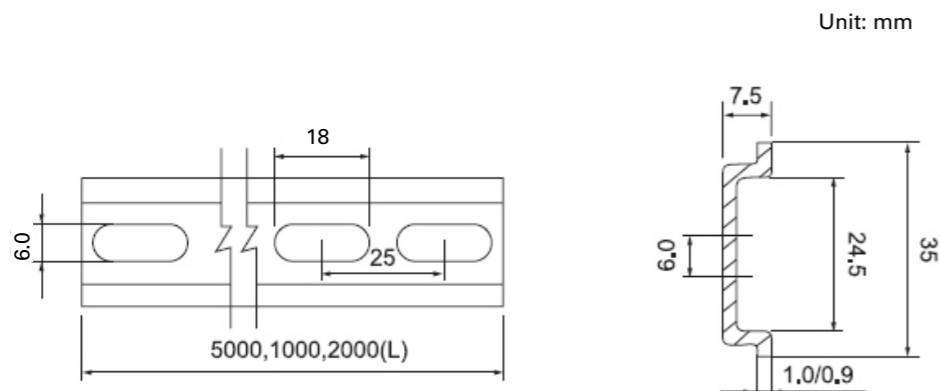
HDIN is Himel range of Din Rails designed to install air switch, contactor and other electrical components.

### 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 <b>12T:</b> Steel	<b>1000:</b> 1000mm <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.

### Selection Code

Range name	Rated power	Output voltage
<b>HDKUS</b>	<b>50</b>	<b>12</b>
<b>HDKUS</b>	<b>35:</b> 35W <b>50:</b> 50W <b>75:</b> 75W <b>100:</b> 100W <b>150:</b> 150W <b>200:</b> 200W <b>350:</b> 350W	<b>05:</b> 5V <b>12:</b> 12V <b>24:</b> 24V <b>36:</b> 36V <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°C	
Output loop	Single						

### Online Content



HDKUS

## 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
<b>HBK</b>	<b>100</b>	<b>E9</b>	<b>G</b>	<b>M</b>	<b>C</b>
<b>HBK</b>	<b>00025:</b> 25VA <b>00050:</b> 50VA <b>00060:</b> 60VA <b>00063:</b> 63VA <b>00100:</b> 100VA <b>10000:</b> 10kVA <b>15000:</b> 15kVA <b>20000:</b> 20kVA	<b>D1:</b> 380V/220V <b>D2:</b> 380V/36V <b>D3:</b> 380V/24V <b>D7:</b> 220V/220V <b>D8:</b> 220V/36V <b>D9:</b> 220V/24V <b>D5V:</b> 380V/5V <b>E1:</b> 400V/230V <b>E7:</b> 230V/230V <b>E8:</b> 230V/36V <b>E9:</b> 230V/24V <b>E5V:</b> 230V/5V <b>F1:</b> 240V/380V 415V/12V/24V/110V <b>F2:</b> 230V/380V/415V /12V/24V/230V	<b>Default:</b> no isolation  <b>G:</b> isolation: only available when input equals to output voltage	<b>Default:</b> single-input & single-output type  <b>M:</b> Multi-input & Muti-output type	<b>For Multi-input &amp; Muti-output type, two structures can be selected:</b> <b>C:</b> Center-tapped Winding  <b>S:</b> Separate 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: Amperemeter, 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 multifunction
- 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
<b>HP*606</b>	<b>L</b>	<b>72</b>	<b>P</b>	<b>1</b>	<input type="checkbox"/>
<b>HPA606:</b> HPA606 Amperemeter <b>HPZ606:</b> HPZ606 Voltmeter <b>HPD606:</b> HPD606 Combination meter <b>HPDM606:</b> HPDM606 Multifunction meter	<b>L:</b> AC	<b>72:</b> 72x72 mm <b>96:</b> 96x96 mm <b>48:</b> 96x48 mm (only for single-phase meter)	<b>P:</b> Programmable Display Instrument <b>K:</b> DO <b>T:</b> RS485 <b>S:</b> DO+RS485	<b>1:</b> One-row LED display <b>4:</b> Three-row LED display <b>3Y:</b> Three-phase LCD display (only for multifunction meter)	<b>Voltmeter:</b> <b>Y:</b> 100V <b>O:</b> 600V <b>Amperemeter:</b> <b>5A:</b> Secondary 5A <b>1A:</b> Secondary 1A <b>Combination &amp; Multifunction meter:</b> <b>O5A:</b> 600V5A / O1A: 600V1A <b>Y5A:</b> 100V5A / Y1A: 100V1A (Special type can be customized)

### Technical Parameters

Digital Power Meters		HP606	
Input	Network system	Single-phase & Three-phase	
	Voltage	Overload	
	Current	Overload	
	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. 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; (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
<b>H72</b>	<b>50</b>	<b>A</b>
<b>H72TA:</b> H72 AC Amperemeter	<b>5:</b> 5A <b>20:</b> 20A ... <b>5000:</b> 5000A <b>10000:</b> 10000A	<b>Default:</b> External transformer connection <b>A:</b> Direct connection (1-20A)
<b>H96LV:</b> H96 AC Voltmeter	<b>300:</b> 300V <b>500:</b> 500V <b>600:</b> 600V	<b>Default:</b> Direct connection (30-600V)
<b>H96CV:</b> H96 DC Voltmeter	<b>300:</b> 300V <b>500:</b> 500V <b>600:</b> 600V	<b>Default:</b> Direct connection (3-600V)
<b>H72LHZ:</b> H72 frequency meter <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

## METERING

# 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
<b>HLMK</b>	<b>P6</b>	<b>P1</b>	<b>30</b>	<b>30</b>
<b>HLMK</b>	<b>P6: 0.66kV</b>	<b>Default: class 0.5</b> <b>P1: class 1</b>	<b>30: 30A</b> <b>50: 50A</b> <b>75: 75A</b> ... <b>5000: 5000A</b>	<b>30: 30×10mm</b> <b>40: 40×10mm</b> <b>50: 50×15mm</b> <b>60: 60×20mm</b> <b>80: 80×10mm or 60×30mm</b> <b>100: 100×30mm or 60×40mm</b> <b>120: 120×25mm or 80×30mm</b>

### 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 50 75 100 150 200	250 300 400 500	300 400 500 600 750 1000	500 600 750 800 1000 1200 1500	600 750 800 1000 1200 1500 2000 2500	600 750 800 1000 1200 1500 2000 2500 3000	1500 2000 2500 3000 4000 5000

Technical Parameters	
<b>Current Transformers</b>	<b>HLMK</b>
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>n</sub>
Security coefficient security coefficient	FS<5
Standard	IEC 60044-1
Certificate	CE

## METERING

# 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
<b>HDDS606</b>	<b>N</b>	<b>1</b>	<b>6M4</b>	<b>6</b>	<b>H</b>	<b>CD</b>	<b>485</b>
<b>HDDS606:</b> Single-phase Electronic Watt-Hour Meter	<b>N: 230V</b>	<b>1: ±1%</b> <b>2: ±2%</b>	<b>6M4: 1.5(6)A</b> <b>10M4: 2.5(10)A</b> ... <b>100M3: 30(100)A</b>	<b>Default: 50Hz</b> <b>6: 60Hz</b>	<b>H: Connect via VT/CT (only for dial display)</b> <b>Default: Direct connection</b>	<b>CD: LCD display</b> <b>Default: Dial display</b>	<b>485: 485 interface</b> <b>I: infrared</b> <b>Default: without any optional function</b>
<b>HDTS607:</b> Three-phase Four-wire Electronic Watt-Hour Meter	<b>NV: 230V</b>	<b>1: ±1%</b> <b>2: ±2%</b>	<b>6M4: 1.5(6)A</b> <b>10M4: 2.5(10)A</b> ... <b>100M3: 30(100)A</b>	<b>Default: 50Hz</b> <b>6: 60Hz</b>	<b>H: Connect via VT/CT (only for dial display)</b> <b>Default: Direct connection</b>	<b>Default: Dial display</b>	<b>485: 485 interface</b> <b>I: infrared</b> <b>Default: without any optional function</b>



Technical Parameters		
<b>Energy Meters</b>	<b>HDDS606</b>	<b>HDTS607</b>
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

## HSVCB 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

NEW



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

126

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

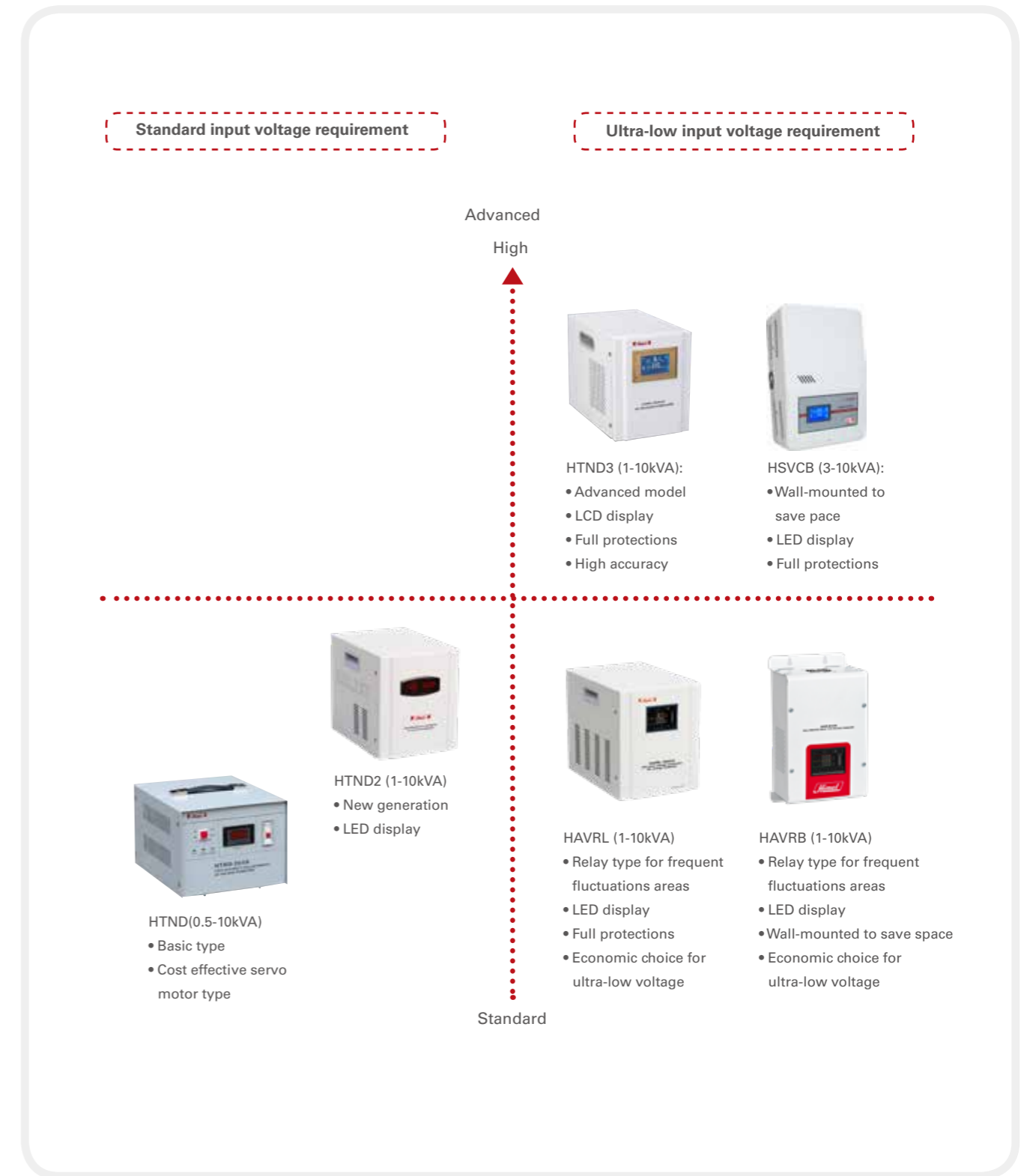


Rated capacity: 10-2000kVA  
Regulation type: servo motor type

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 stabilizers up to 30kVA with high accuracy and smooth stabilization.

### Selection Code

Range name	Power rating	Connection type	Input voltage	Output voltage
<b>HTND</b>	<b>P5</b>	<b>HE</b>	<b>I110</b>	<b>O220</b>
<b>HTND:</b> HTND series	<b>P5:</b> 0.5kVA 1: 1kVA 1 <b>P5:</b> 1.5kVA 2: 2kVA 3: 3kVA 5: 5kVA 7: 7kVA 10: 10kVA 10 <b>G:</b> 10kVA cabinet 15 <b>G:</b> 15kVA cabinet 20 <b>G:</b> 20kVA cabinet 30 <b>G:</b> 30kVA cabinet	<b>HE:</b> Europe plug (1.5kVA)  <b>HB:</b> British plug (only when capacity ≤ 1.5kVA)  <b>H:</b> Terminal connect	<b>Default:</b> Standard 150-250V <b>I110:</b> Input: 110-250V	<b>O220:</b> Output 220V <b>O230:</b> Output 230V
<b>HTND2:</b> HTND2 series	1: 1kVA 1 <b>P5:</b> 1.5kVA 2: 2kVA 3: 3kVA 5: 5kVA 7: 7kVA 10: 10kVA 10 <b>G:</b> 10kVA cabinet 15 <b>G:</b> 15kVA cabinet 20 <b>G:</b> 20kVA cabinet 30 <b>G:</b> 30kVA cabinet	<b>HE:</b> Europe plug (only when capacity ≤ 10kVA)  <b>HB:</b> British plug (only when capacity ≤ 10kVA)  <b>H:</b> Terminal connect	<b>Default:</b> Standard 140-250V <b>I85:</b> Input: 85-250V <b>I110:</b> Input: 110-250V	<b>Default:</b> Output 220V <b>O230:</b> Output 230V
<b>HTND3:</b> HTND3 series	1: 1kVA 1 <b>P5:</b> 1.5kVA 2: 2kVA 3: 3kVA 5: 5kVA 7: 7kVA 10: 10kVA 10 <b>G:</b> 10kVA cabinet 15 <b>G:</b> 15kVA cabinet 20 <b>G:</b> 20kVA cabinet 30 <b>G:</b> 30kVA cabinet	<b>HE:</b> Europe plug (only when capacity ≤ 10kVA)  <b>HB:</b> British plug (only when capacity ≤ 10kVA)  <b>H:</b> Terminal connect	<b>Default:</b> Standard 140-250V <b>I85:</b> Input: 85-250V <b>I110:</b> Input: 110-250V	<b>Default:</b> Output 220V <b>O230:</b> 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%; 110 (or 115) ±4%; 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 15-30kVA: 150-290V	1-10kVA: 150-250V 15-20kVA: 150-290V	1-10kVA: 140-250V 15-20kVA: 140-300V 30kVA: 155-285V
Customized input range	V	100-240	85-250	
Cooling mode		Air cooling can be customized (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	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

# HSVCB Servo Type Wall-mounted Voltage Stabilizers

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



### Range Presentation

HSVCB is Himel range of single-phase wall-mounted servo motor type voltage stabilizers up to 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
<b>HSVCB</b>	<b>5</b>	<b>C</b>	<b>I110</b>	<b>O230</b>
<b>HSVCB</b>	3: 3kVA 5: 5kVA 7: 7kVA 8: 8kVA 10: 10kVA	Default: LED C: LCD	Default: Standard 140-250V I85: Input: 85-250V I110: Input: 110-250V	Default: Output 220V 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		HSVCB	
Rated Capacity	kVA	3~7	10
Output Voltage	Accuracy of stabilized voltage	V	220 (or 230) ±4%; 110 (or 115) ±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 Output overvoltage protection By-pass	
Extended function*	Optional	Fan 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
<b>HAVRB</b>	<b>5</b>	<b>I110</b>	<b>-</b>
<b>HAVRB</b>	1: 1kVA 1P5: 1.5kVA 2: 2kVA 3: 3kVA 5: 5kVA 7: 7kVA 8: 8kVA 10: 10kVA 12: 12kVA	Default: Standard 140-250V I85: Input: 85-250V 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 Short circuit protection Output overvoltage protection Output undervoltage protection Time delay	
Extended Function*	Optional	Fan By-pass Input undervoltage protection 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), 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
<b>HAVRL</b>	<b>P5</b>	<b>HE</b>	<b>I110</b>
<b>HAVRL</b>	<b>P5:</b> 0.5kVA <b>1:</b> 1kVA <b>1P5:</b> 1.5kVA ... <b>10:</b> 10kVA	<b>HE:</b> Europe plug <b>HB:</b> British plug	<b>Default:</b> Input: 85-250V <b>I110:</b> 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	220±8%; 110±10% (only when capacity is equal or less than 5kVA)	
	Overvoltage protection	250±4	
Range of input voltage	V	85-250	110-250
Customized input range	V	110-250 or 140-250	140-250
Extended function*	Optional	By-pass Fan 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	
	Certificate	CE	-
Protection	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
<b>HSJW</b>	<b>1P5</b>	<b>G</b>	<b>E</b>	<b>I250</b>	<b>O400</b>
<b>HSJW</b>	<b>1P5:</b> 1.5kVA <b>3:</b> 3kVA <b>4P5:</b> 4.5kVA <b>6:</b> 6kVA <b>9:</b> 9kVA <b>15:</b> 15kVA <b>20:</b> 20kVA <b>30:</b> 30kVA <b>45:</b> 45kVA <b>60:</b> 60kVA	<b>Default:</b> Desktop; Only for 1.5kVA-4.5kVA  <b>G:</b> Cabinet	<b>Default:</b> Dial meter display  <b>E:</b> LED display  <b>MLCD:</b> Multifunction meter (LCD) display	<b>Default:</b> I/260-430V for 1.5-30kVA; I/ 304-456V for 45-60kVA  <b>I250:</b> Input 250-423V	<b>Default:</b> Output 380V <b>O400:</b> Output 400V

### Technical Parameters

Three-Phase Voltage Stabilizer		HSJW	
Rated capacity	kVA	1.5-30	45-60
Output voltage	Accuracy of stabilized voltage	380 (or 400) ±4%	
	Overvoltage protection	425 (or 445) ±7	
Range of input voltage	V	260-430	304-456
Customized input range	V	250-423	
Extended function*	Optional	By-pass Fan Input undervoltage protection Output undervoltage protection Overload protection Phase failure protection Temperature rise protection Time delay 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
<b>HSBW</b>	<b>10</b>	<b>E</b>	<b>I250</b>	<b>O400</b>
<b>HSBW</b>	<b>10:</b> 10kVA <b>15:</b> 15kVA <b>30:</b> 30kVA <b>50:</b> 50kVA ... <b>1000:</b> 1000kVA <b>1600:</b> 1600kVA <b>2000:</b> 2000kVA	<b>Default:</b> Dial meter display  <b>E:</b> LED display  <b>MLCD:</b> Multifunction meter (LCD) display	<b>Default:</b> I/ 304-456V  <b>I250:</b> Input 250-423V	<b>Default:</b> Output 380V <b>O400:</b> Output 400V  <b>O470:</b> 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	380 (or 400) ±3%	
	Undervoltage protection	320 (or 340) ±7	
	Overvoltage protection	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 Fan Input undervoltage protection Overload protection Phase failure protection Temperature rise protection Time delay Surge protector	
Voltage-regulating speed	s	<1 (variation of input voltage is 10%)	
Temperature rise	K	<60	
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	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

## Electrical Tape Accessories and Tools



Effectively protect your electrical wires

Electrical Tape

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

## Tool Boxes Accessories and Tools NEW



Enhance the way you work

Tool Boxes

Set: 8 pieces / 18 pieces **169**

## Smart Series Home Accessories NEW



Connected Home made Affordable

Smart Series

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

## 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



# 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 <b>C:</b> Cream <b>G:</b> Gold <b>M:</b> Metallic <b>B:</b> Brown

## Online Content



Advanced Series

## Color Selection



White

Cream

Gold

Metallic





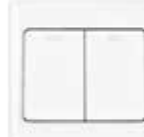

Brown

# ADVANCED SERIES



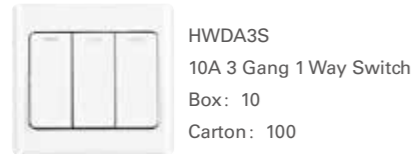
Easy **Installation**  
Modern **Design**  
Multiple **Functions**

## 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

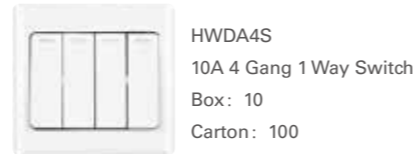
British Wiring Devices



**HWDA3S**  
10A 3 Gang 1 Way Switch  
Box: 10  
Carton: 100



**HWDA3S2**  
10A 3 Gang 2 Way Switch  
Box: 10  
Carton: 100



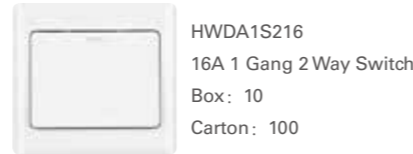
**HWDA4S**  
10A 4 Gang 1 Way Switch  
Box: 10  
Carton: 100



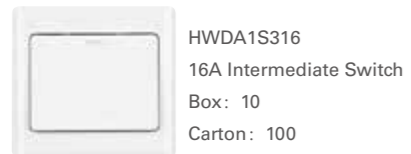
**HWDA4S2**  
10A 4 Gang 2 Way Switch  
Box: 10  
Carton: 100



**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



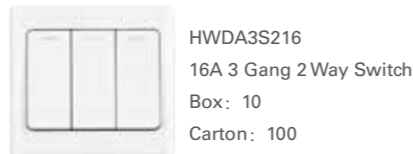
**HWDA2S16**  
16A 2 Gang 1 Way Switch  
Box: 10  
Carton: 100



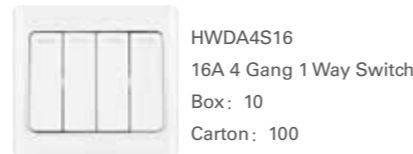
**HWDA2S216**  
16A 2 Gang 2 Way Switch  
Box: 10  
Carton: 100



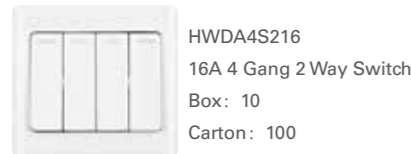
**HWDA3S16**  
16A 3 Gang 1 Way Switch  
Box: 10  
Carton: 100



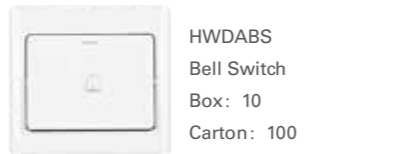
**HWDA3S216**  
16A 3 Gang 2 Way Switch  
Box: 10  
Carton: 100



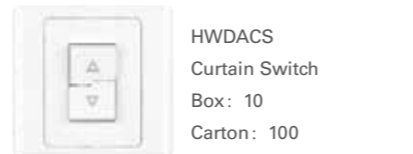
**HWDA4S16**  
16A 4 Gang 1 Way Switch  
Box: 10  
Carton: 100



**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

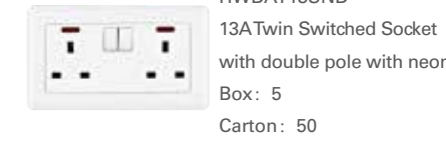
British Wiring Devices



**HWDAT13SS**  
13A Twin Switched  
Socket  
Box: 5  
Carton: 50



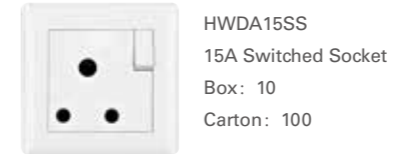
**HWDAT13SN**  
13A Twin Switched  
Socket with Neon  
Box: 5  
Carton: 50



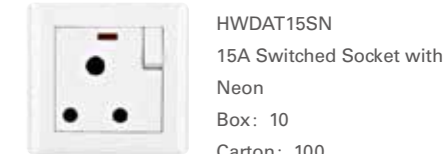
**HWDAT13SND**  
13A Twin Switched Socket  
with double pole with neon  
Box: 5  
Carton: 50



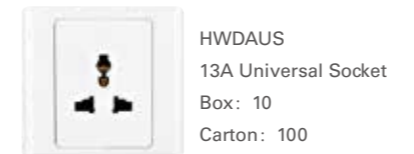
**HWDAT13USB**  
13A Socket + 2USB  
Box: 8  
Carton: 80



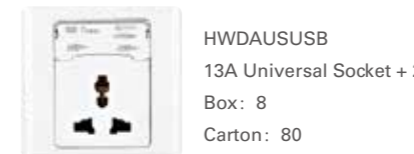
**HWD A15SS**  
15A Switched Socket  
Box: 10  
Carton: 100



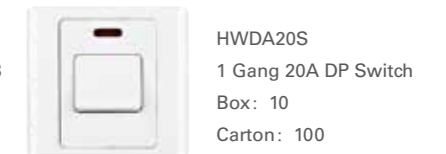
**HWDAT15SN**  
15A Switched Socket with  
Neon  
Box: 10  
Carton: 100



**HWD AUS**  
13A Universal Socket  
Box: 10  
Carton: 100



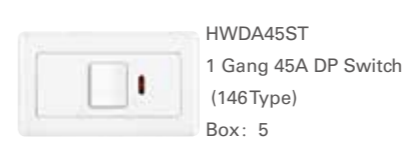
**HWD AUS USB**  
13A Universal Socket + 2USB  
Box: 8  
Carton: 80



**HWD A20S**  
1 Gang 20A DP Switch  
Box: 10  
Carton: 100

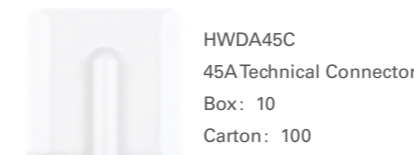


**HWD A45S**  
1 Gang 45A DP Switch  
Box: 10  
Carton: 100

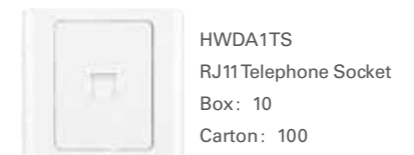


**HWD A45ST**  
1 Gang 45A DP Switch  
(146Type)  
Box: 5  
Carton: 50

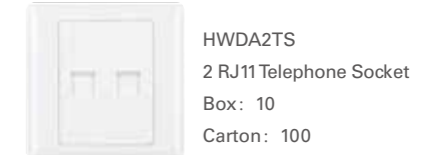
## Telecommunication Accessories



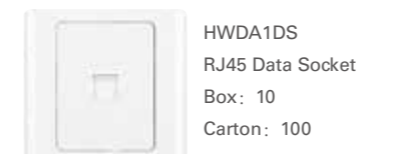
**HWD A45C**  
45A Technical Connector  
Box: 10  
Carton: 100



**HWD A1TS**  
RJ11 Telephone Socket  
Box: 10  
Carton: 100



**HWD A2TS**  
2 RJ11 Telephone Socket  
Box: 10  
Carton: 100



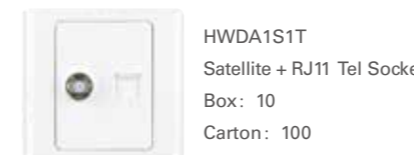
**HWD A1DS**  
RJ45 Data Socket  
Box: 10  
Carton: 100



**HWD A2DS**  
2 RJ45 Data Socket  
Box: 10  
Carton: 100



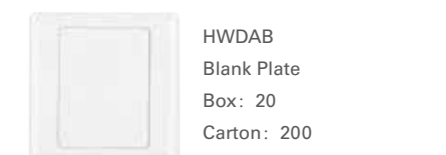
**HWD A1SS**  
Satellite Socket  
Box: 10  
Carton: 100



**HWD A1S1T**  
Satellite + RJ11 Tel Socket  
Box: 10  
Carton: 100



**HWD ASTS**  
Sensitive Time Switch  
Box: 8  
Carton: 80



**HWD AB**  
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 appearance. 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
<b>HDWP</b>	<b>XXX</b>
<p><b>A:</b> Advanced  <b>S:</b> Style  <b>M:</b> Modern  <b>C:</b> Click  <b>CE:</b> Click Eco  <b>P:</b> Prime V2</p>	<p>You may replace XX codes by functionality codes listed below</p>

## Online Content



Prime V2

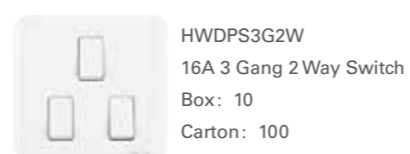
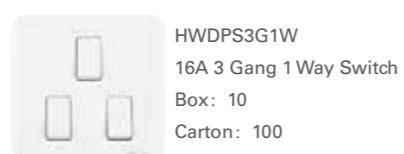
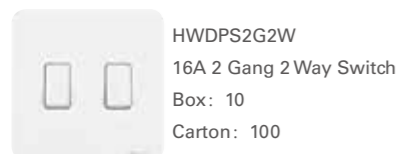
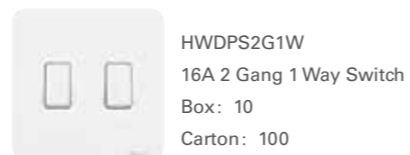
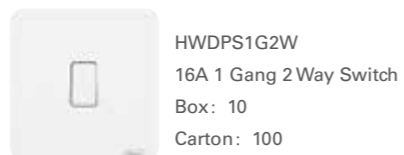
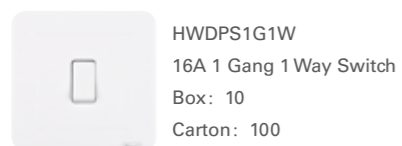
# PRIME SERIES



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



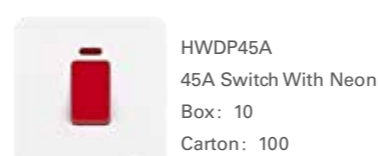
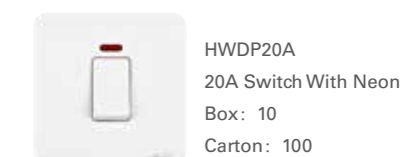
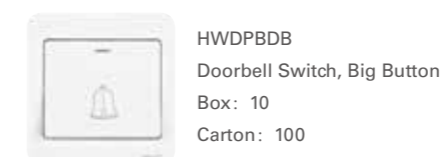
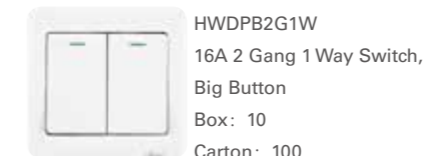
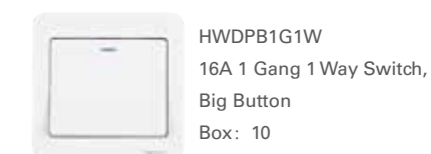
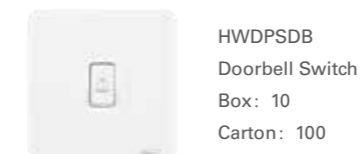
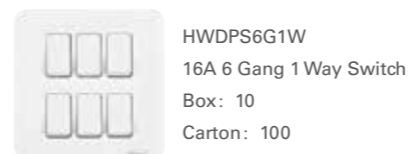
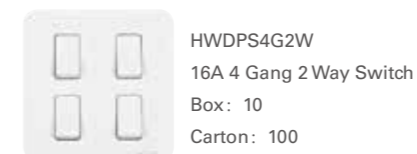
## Switches



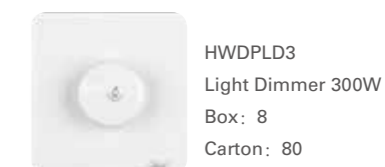
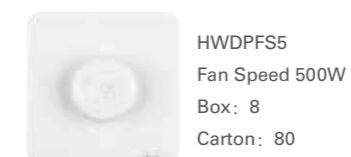
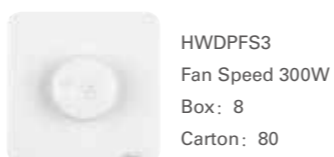
## HOME ELECTRIC

### Prime V2 Series

British Wiring Devices



## Dimmers





# Prime V2 Series

British Wiring Devices




**HWDP5PS**  
15A Switched Socket With Neon  
Box: 10  
Carton: 100



**HWDP5PSS**  
13A 5Pin MF Switched Socket  
Box: 10  
Carton: 100



**HWDP5PSSN**  
13A 5Pin MF Switched Socket With Neon  
Box: 10  
Carton: 100




**HWDP1GD3**  
1 Gang Switch With Dimmer 300W  
Box: 8  
Carton: 80



**HWDP1GD5**  
1 Gang Switch With Dimmer 500W  
Box: 8  
Carton: 80


## 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




**HWDP13MF**  
13A MF Socket  
Box: 10  
Carton: 100



**HWDP13ASSN2USB**  
13A Switched Socket + 2USB  
Box: 8  
Carton: 80



**HWDP13MFSS**  
13A MF Switched Socket  
Box: 10  
Carton: 100




**HWDP13MFSSN**  
13A MF Switched Socket With Neon  
Box: 10  
Carton: 100




**HWDP13MFSSN2USB**  
13A MF Switched Socket With Neon + 2USB  
Box: 8  
Carton: 80




**HWDP15SS**  
15A Switched Socket  
Box: 10  
Carton: 100



**HWDP15SS**  
15A Switched Socket  
Box: 10  
Carton: 100



**HWDP15SSN**  
15A Switched Socket With Neon  
Box: 10  
Carton: 100




**HWDP5PS**  
13A 5Pin MF Socket  
Box: 10  
Carton: 100




**HWDP5PSS**  
13A 5Pin MF Switched Socket  
Box: 10  
Carton: 100

# 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




**HWDP16E**  
16A Europe Socket  
Box: 10  
Carton: 100



**HWDP2PS**  
10A 2Pin Socket  
Box: 10  
Carton: 100




**HWDP2G2PS**  
10A 2X2Pin Socket  
Box: 10  
Carton: 100




**HWDP3G2PS**  
10A 3X2Pin Socket  
Box: 10  
Carton: 100




**HWDP1G1W2P**  
1 Gang 1 Way Switch And 10A 2Pin Socket  
Box: 10  
Carton: 100




**HWDP1G2W2P**  
1 Gang 2 Way Switch And 10A 2Pin Socket  
Box: 10  
Carton: 100




**HWDP1G1W22P**  
1 Gang 1 Way Switch And 10A 2X2Pin Socket  
Box: 10  
Carton: 100



**HWDP1G2W22P**  
1 Gang 2 Way Switch And 10A 2X2Pin Socket  
Box: 10  
Carton: 100




**HWDP2G1W2P**  
2 Gang 1 Way Switch And 10A 2Pin Socket  
Box: 10  
Carton: 100




**HWDP2G2W2P**  
2 Gang 2 Way Switch And 10A 2Pin Socket  
Box: 10  
Carton: 100




**HWDP2G1W22P**  
2 Gang 1 Way Switch And 10A 2X2Pin Socket  
Box: 10  
Carton: 100



**HWDP2G2W22P**  
2 Gang 2 Way Switch And 10A 2X2Pin Socket  
Box: 10  
Carton: 100



**HWDP2PUSB**  
10A 2Pin Socket + USB  
Box: 10  
Carton: 100



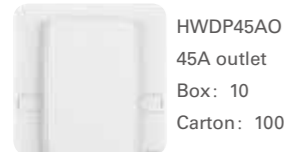
**HWDP2P2USB**  
10A 2Pin Socket + 2USB  
Box: 10  
Carton: 100

# Prime V2 Series

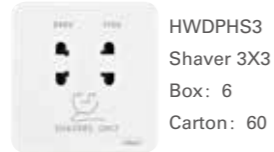
British Wiring Devices



## Accessories



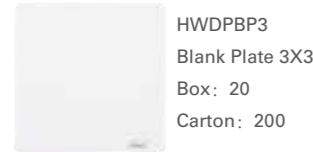
**HWDP45AO**  
45A outlet  
Box: 10  
Carton: 100



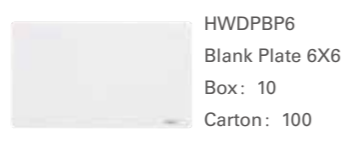
**HWDPHS3**  
Shaver 3X3  
Box: 6  
Carton: 60



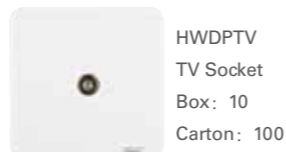
**HWDPHS6**  
Shaver 3X6  
Box: 3  
Carton: 30



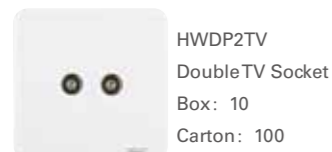
**HWDPBP3**  
Blank Plate 3X3  
Box: 20  
Carton: 200



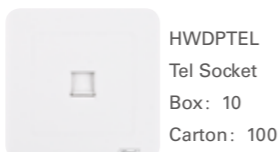
**HWDPBP6**  
Blank Plate 6X6  
Box: 10  
Carton: 100



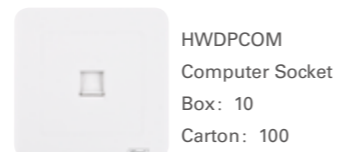
**HWDPTV**  
TV Socket  
Box: 10  
Carton: 100



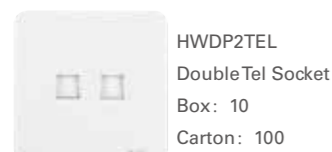
**HWDP2TV**  
Double TV Socket  
Box: 10  
Carton: 100



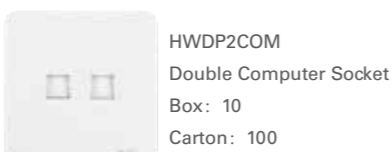
**HWDPTEL**  
Tel Socket  
Box: 10  
Carton: 100



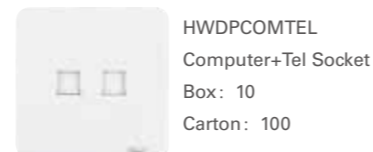
**HWDP2COM**  
Computer Socket  
Box: 10  
Carton: 100



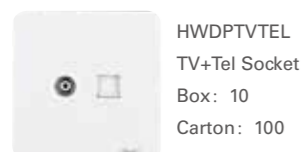
**HWDP2TEL**  
Double Tel Socket  
Box: 10  
Carton: 100



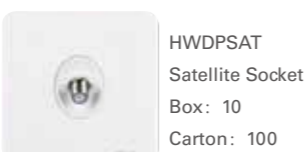
**HWDP2COM**  
Double Computer Socket  
Box: 10  
Carton: 100



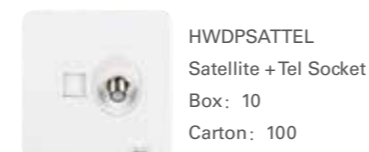
**HWDP2COMTEL**  
Computer+Tel Socket  
Box: 10  
Carton: 100



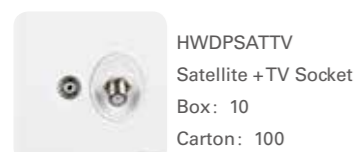
**HWDPTVTEL**  
TV+Tel Socket  
Box: 10  
Carton: 100



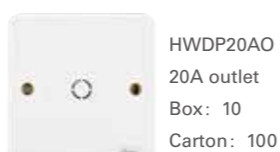
**HWDP2SAT**  
Satellite Socket  
Box: 10  
Carton: 100



**HWDP2SATTEL**  
Satellite + Tel Socket  
Box: 10  
Carton: 100

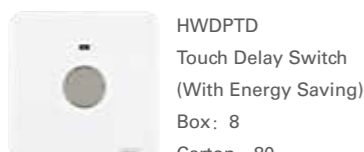


**HWDP2SATTV**  
Satellite + TV Socket  
Box: 10  
Carton: 100

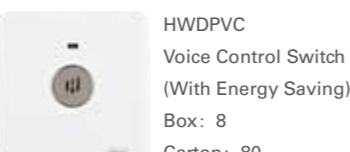


**HWDP20AO**  
20A outlet  
Box: 10  
Carton: 100

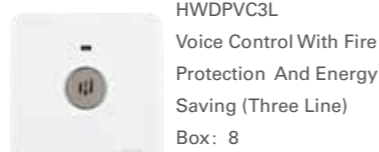
## Hotel Accessories



**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



**HWDPHPH**  
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

**HWDS**

**XXX**

**G**

**A:** Advanced  
**S:** Style  
**M:** Modern  
**C:** Click  
**CE:** Click Eco  
**P:** Prime V2

You may replace XX codes by functionality codes listed below

**Default:** White  
**G:** Gold  
**M:** Metallic  
**W:** Wood

## Online Content



Style Series

## Color Selection



White



Gold



Metallic



Wood

# STYLE SERIES



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



## Switches



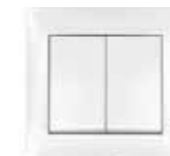
HWDS1S  
1 Gang 1 Way Switch  
Box: 10  
Carton: 120



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



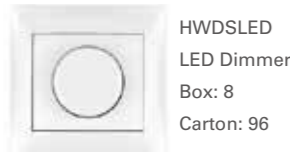
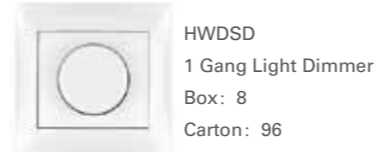
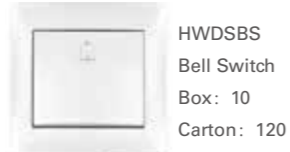
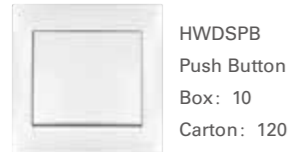
HWDS1SL  
1 Gang 1 Way Switch with LED  
Box: 10  
Carton: 120



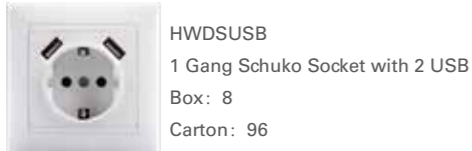
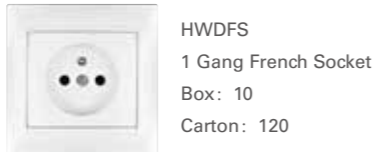
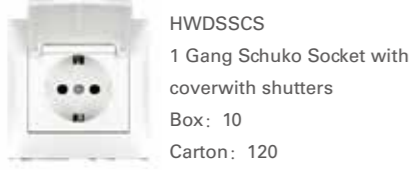
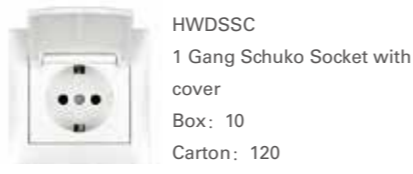
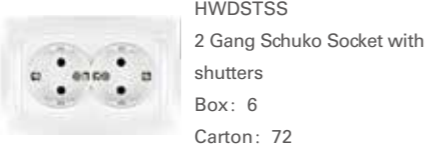
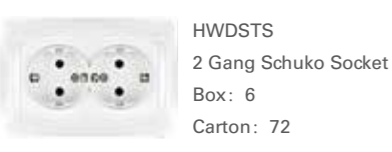
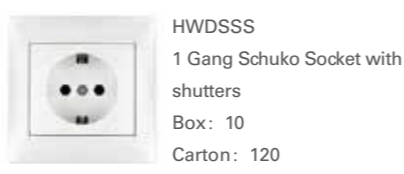
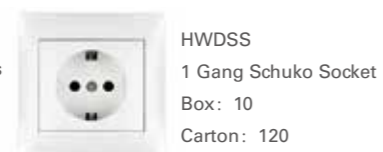
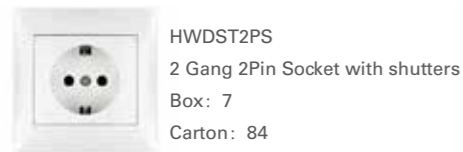
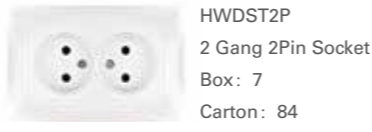
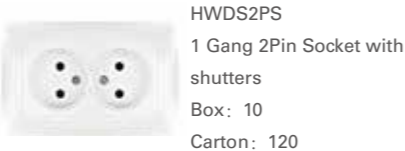
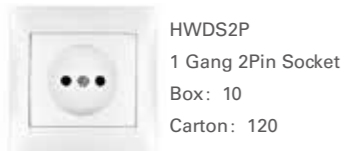
HWDS2SL  
2 Gang 1 Way Switch with LED  
Box: 10  
Carton: 120

# Style Series

European Wiring Devices



## Socket Outlet

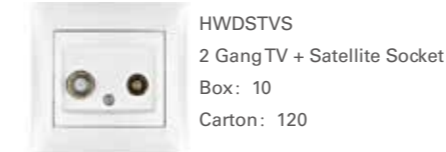
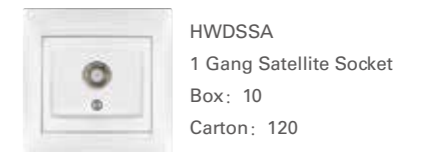
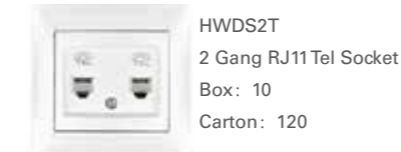
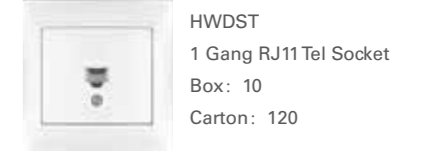
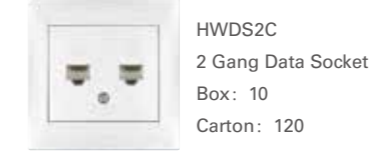
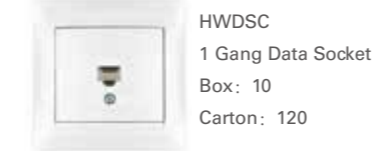


# Style Series

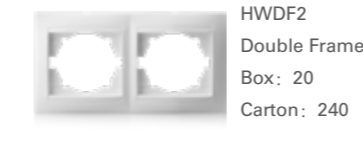
European Wiring Devices



## Telecommunication Accessories

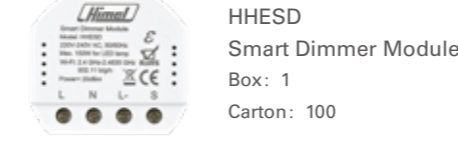
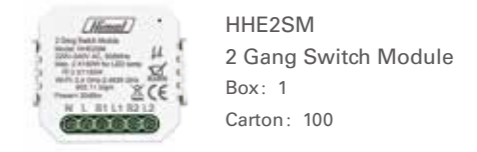
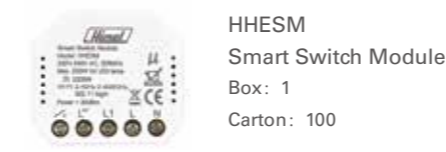


## Flush Plates



## Future Ready

Upgrade your Style Series switches with our WIFI Smart modules





# 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

**HWDM**

**XXX**

**C**

**A:** Advanced  
**S:** Style  
**M:** Modern  
**C:** Click  
**CE:** Click Eco  
**P:** Prime V2

You may replace XX codes by functionality codes listed below

**Default:** White  
**C:** Cream  
**SM:** Smoke  
**MK:** Metallic Black  
**MO:** Mocha  
**MB:** Metallic Beige  
**SV:** Silver

## Online Content



Modern Series

## Color Selection



White



Cream



Smoked Grey



Mocha



Silver

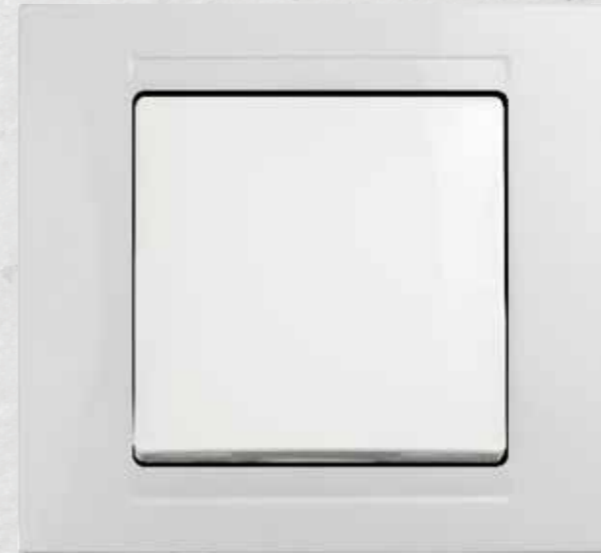


Metallic Beige



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  
2Way Switch  
Box: 15  
Carton: 150



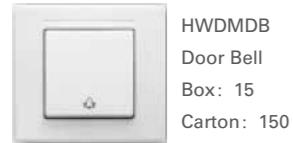
HWDM2S2  
2 Gang 2Way Switch  
Box: 15  
Carton: 150



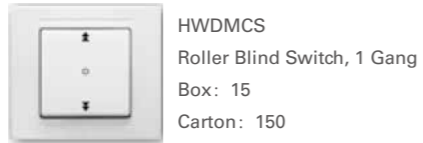
HWDMDC  
Door Check  
Box: 15  
Carton: 150

# Modern Series

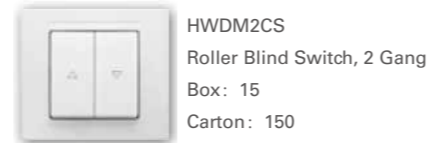
European Wiring Devices



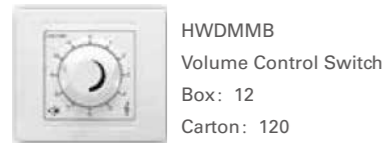
HWDMDB  
Door Bell  
Box: 15  
Carton: 150



HWDMCS  
Roller Blind Switch, 1 Gang  
Box: 15  
Carton: 150



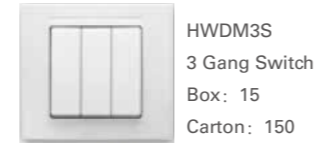
HWDM2CS  
Roller Blind Switch, 2 Gang  
Box: 15  
Carton: 150



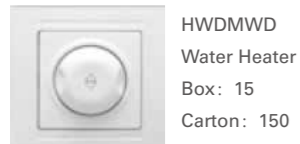
HWDMMB  
Volume Control Switch  
Box: 12  
Carton: 120



HWDMMW  
Intermediate Switch  
Box: 15  
Carton: 150



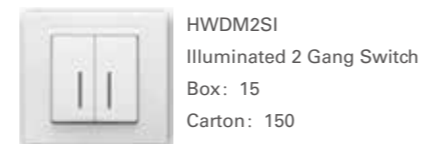
HWDM3S  
3 Gang Switch  
Box: 15  
Carton: 150



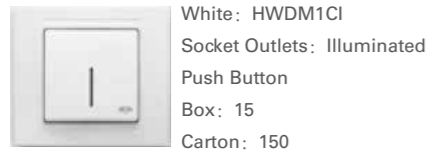
HWDMWD  
Water Heater  
Box: 15  
Carton: 150



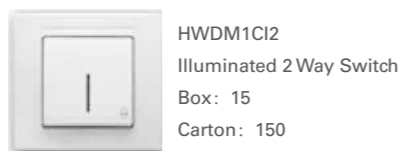
HWDM1SI  
Illuminated Switch  
Box: 15  
Carton: 150



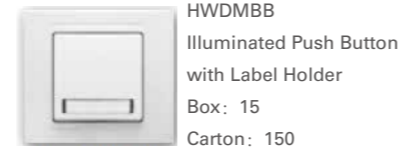
HWDM2SI  
Illuminated 2 Gang Switch  
Box: 15  
Carton: 150



White; HWDM1CI  
Socket Outlets: Illuminated  
Push Button  
Box: 15  
Carton: 150



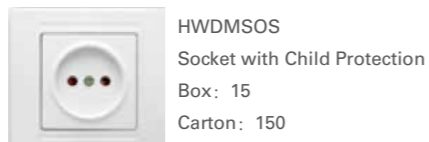
HWDM1CI2  
Illuminated 2Way Switch  
Box: 15  
Carton: 150



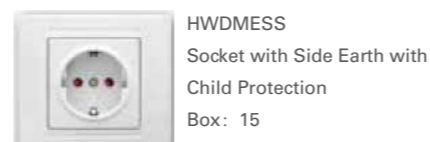
HWDMBB  
Illuminated Push Button  
with Label Holder  
Box: 15  
Carton: 150



HWDMSO  
Socket  
Box: 15  
Carton: 150



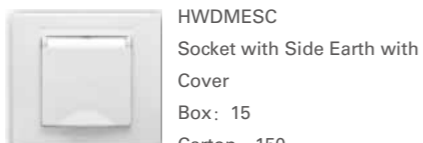
HWDMSOS  
Socket with Child Protection  
Box: 15  
Carton: 150



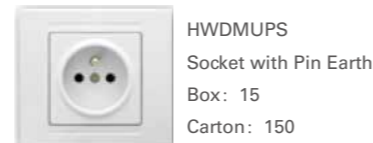
HWDMESS  
Socket with Side Earth with  
Child Protection  
Box: 15  
Carton: 150



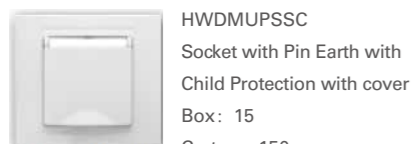
HWDMES  
Socket with Side Earth  
Box: 15  
Carton: 150



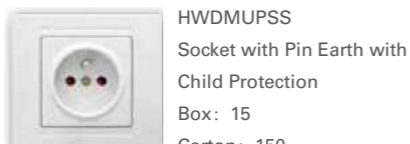
HWDMESC  
Socket with Side Earth with  
Cover  
Box: 15  
Carton: 150



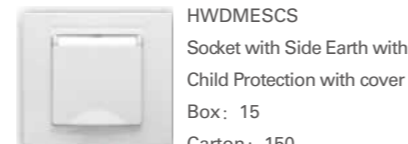
HWDMUPS  
Socket with Pin Earth  
Box: 15  
Carton: 150



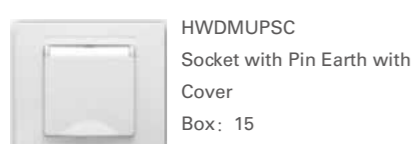
HWDMUPSSC  
Socket with Pin Earth with  
Child Protection with cover  
Box: 15  
Carton: 150



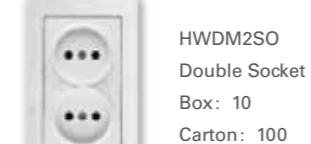
HWDMUPSS  
Socket with Pin Earth with  
Child Protection  
Box: 15  
Carton: 150



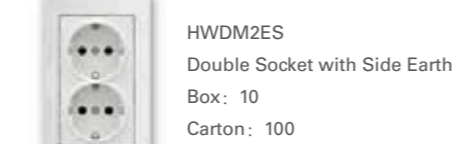
HWDMESCS  
Socket with Side Earth with  
Child Protection with cover  
Box: 15  
Carton: 150



HWDMUPSC  
Socket with Pin Earth with  
Cover  
Box: 15  
Carton: 150



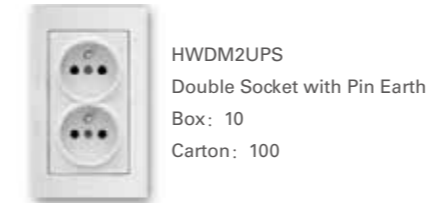
HWDM2SO  
Double Socket  
Box: 10  
Carton: 100



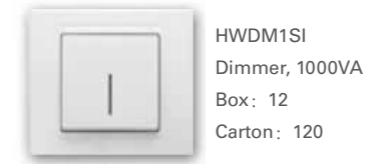
HWDM2ES  
Double Socket with Side Earth  
Box: 10  
Carton: 100

# Modern Series

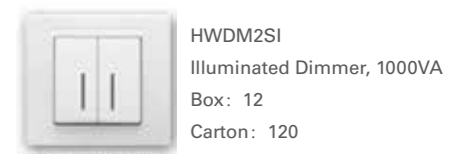
European Wiring Devices



HWDM2UPS  
Double Socket with Pin Earth  
Box: 10  
Carton: 100



HWDM1SI  
Dimmer, 1000VA  
Box: 12  
Carton: 120



HWDM2SI  
Illuminated Dimmer, 1000VA  
Box: 12  
Carton: 120



HWDM1CI  
2Way Dimmer, 600A  
Box: 12  
Carton: 120

## Telecommunication Accessories



HDMTV  
TV Socket, Ending-Intermediate  
Box: 15  
Carton: 150



HDMSAT  
TV SAT Socket, Intermediate  
Box: 15  
Carton: 150



HDMSATL  
TV SAT Radio Socket,  
Intermediate  
Box: 15  
Carton: 150



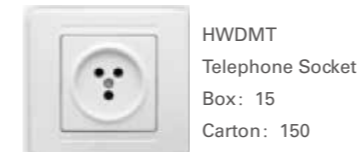
HWDMSATV  
TV SAT Socket, Ending  
Box: 15  
Carton: 150



HWDMSATF  
SAT Socket, Single with  
F Connector  
Box: 15  
Carton: 150



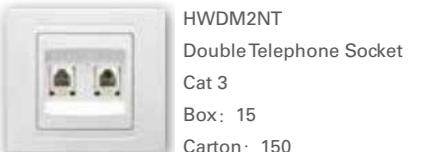
HWDMSATE  
SAT Socket, Single  
Box: 15  
Carton: 150



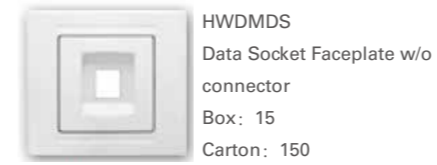
HWDMT  
Telephone Socket  
Box: 15  
Carton: 150



HWDMNT  
Telephone Socket Cat 3  
Box: 15  
Carton: 150



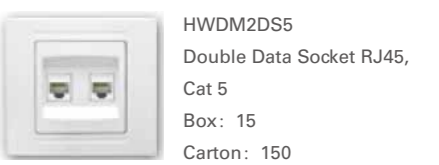
HWDM2NT  
Double Telephone Socket  
Cat 3  
Box: 15  
Carton: 150



HWDMDS  
Data Socket Faceplate w/o  
connector  
Box: 15  
Carton: 150



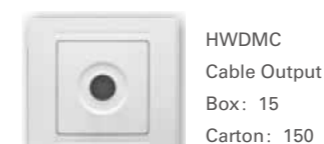
HWDMDS5  
Data Socket RJ45, Cat 5  
Box: 15  
Carton: 150



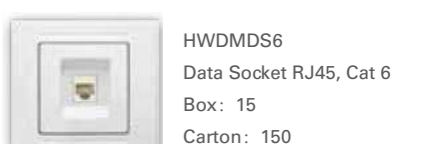
HWDM2DS5  
Double Data Socket RJ45,  
Cat 5  
Box: 15  
Carton: 150



HWDM5P3  
Data + Tel Socket (RJ45  
Cat 5 + Cat 3)  
Box: 15  
Carton: 150




HWDMC  
Cable Output  
Box: 15  
Carton: 150




HWDMDS6  
Data Socket RJ45, Cat 6  
Box: 15  
Carton: 150

# Modern Series


European Wiring Devices


**HWDM2DS6**  
Double Data Socket RJ45,  
Cat 6  
Box: 15  
Carton: 150



**HWDM6P3**  
Data + Phone Socket  
(Cat 6 + Cat 3)  
Box: 15  
Carton: 150



**HWDM2DS**  
Double Data Socket Faceplate  
w/o connector  
Box: 15  
Carton: 150



**HWDM5**  
Audio Socket  
Box: 15  
Carton: 150


## Electronic Group




**HDMMS**  
Movement Detector  
Box: 15  
Carton: 150



**HDMKC**  
Hotel Key Card Switch  
Box: 15  
Carton: 150




**HWDM1F**  
Single Frame  
Box: 15  
Carton: 150



**HWDM2F**  
Double Frame  
Box: 15  
Carton: 150




**HWDM3F**  
Triple Frame  
Box: 15  
Carton: 150




**HWDM4F**  
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 <b>S:</b> Style <b>M:</b> Modern <b>C:</b> Click <b>CE:</b> Click Eco <b>P:</b> Prime V2	You may replace XX codes by functionality codes listed below	<b>Default:</b> White <b>G:</b> Gold <b>C:</b> Coffee <b>M:</b> Metallic <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



**HWDC20A**  
1 Gang 20A Socket  
Box: 10  
Carton: 100



**HWDC20A**  
1 Gang 20A Socket  
Box: 10  
Carton: 100



**HWDCMF**  
2 Gang MF Socket  
Box: 10  
Carton: 100



**HWDC1AUSB**  
American Socket + 2 port USB (2A)  
Box: 8  
Carton: 80



**HWDCUSB**  
1 Gang USB Charger Socket  
Box: 8  
Carton: 80

## Telecommunication Accessories



**HWDCCT**  
1 Gang 4core Tel Socket  
Box: 10  
Carton: 100



**HWDCDS**  
1 Gang 8core Data Socket + Shutter  
Box: 10  
Carton: 100



**HWDCS**  
1 Gang Satellite Socket  
Box: 10  
Carton: 100



**HWDCST**  
1 Gang Satellite Socket + Tel Socket  
Box: 10  
Carton: 100



**HWDCSD**  
1 Gang Satellite Socket + Data Socket  
Box: 10  
Carton: 100



**HWDCSEN**  
1 Gang Sensory Switch  
Box: 8  
Carton: 80



**HWDCWP**  
Weather-Proof Plate Cover Slim Type  
Box: 8  
Carton: 80



**HWDC5P1**  
1 Gang Plate  
Box: 20  
Carton: 200



**HWDC5P2**  
2 Gang Plate  
Box: 20  
Carton: 200



**HWDC5P3**  
3 Gang Plate  
Box: 20  
Carton: 200



**HWDCF1P**  
Blank Plate  
Box: 20  
Carton: 200

# Click Series

American Wiring Devices



## Modular



**HWDC51S**  
1 Way Switch 72mm  
Box: 6  
Carton: 144



**HWDC51S2**  
2 Way Switch 72mm  
Box: 6  
Carton: 144



**HWDC52S1**  
1 Way Switch 36mm  
Box: 12  
Carton: 288



**HWDC52S2**  
2 Way Switch 36mm  
Box: 12  
Carton: 288



**HWDC53S**  
1 Way Switch 24mm  
Box: 18  
Carton: 432



**HWDC53S2**  
2 Way Switch 24mm  
Box: 18  
Carton: 432



**HWDC53S3**  
3 Way Switch 24mm  
Box: 18  
Carton: 432



**HWDC54S**  
1 Way Switch 18mm\*2  
Box: 12  
Carton: 288



**HWDC54S2**  
2 Way Switch 18mm\*2  
Box: 12  
Carton: 288



**HWDC52P**  
2 Pin Socket 24mm  
Box: 18  
Carton: 432



**HWDC52PS**  
2 Pin Socket + Shutter 24mm  
Box: 18  
Carton: 432



**HWDC5MF**  
MF Socket 36mm  
Box: 12  
Carton: 288



**HWDC5AM**  
3 Pin American Socket 24mm  
Box: 18  
Carton: 432



**HWDC520A**  
1 Gang 20A Socket 36mm  
Box: 12  
Carton: 288



**HWDC5TW**  
Twin Receptacle  
Box: 6  
Carton: 144



**HWDC5TWU**  
Twin Universal Receptacle  
Box: 6  
Carton: 144



**HWDCAMUSB**  
American Socket + 2 port  
USB (2A)  
Box: 30  
Carton: 300



**HWDC5USB**  
2A USB Charger 24mm  
Box: 16  
Carton: 384



**HWDC5SAT**  
Satellite Socket 24mm  
Box: 18  
Carton: 432



**HWDC5TEL4**  
4core Tel Socket 24mm  
Box: 18  
Carton: 432



**HWDC5DAT8**  
8core data Socket + Shutter  
CAT5  
Box: 18  
Carton: 432

# Click Series

American Wiring Devices



**HWDC5BP**  
Blank Plate 24mm  
Box: 36  
Carton: 864



**HWDC5BS**  
Bell Switch 24mm  
Box: 18  
Carton: 432



**HWDC5D**  
Dimmer Switch  
(300W/220V) 24mm  
Box: 8  
Carton: 192



**HWDC5FS**  
Fan Speed Switch  
(200W/220V) 24mm  
Box: 8  
Carton: 192



**HWDC5SEN**  
Sensory Switch 36mm  
Box: 8  
Carton: 192



**HWDC5BUZ**  
Buzzer  
Box: 10  
Carton: 240

## Future Ready

Upgrade your Click 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 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

### HWDC E

- A:** Advanced
- S:** Style
- M:** Modern
- C:** Click
- CE:** Click Eco
- P:** Prime V2

### XXX

You may replace XX codes by functionality codes listed below

## Online Content



Click Eco Series

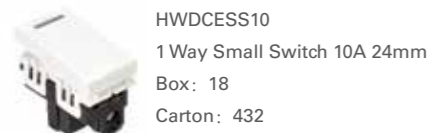
# CLICK Eco SERIES



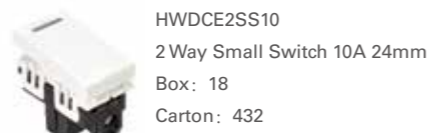
Timeless **Design**  
Complete **Solution**  
Good **quality & economic**



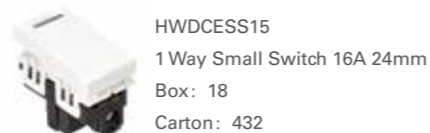
## Switches



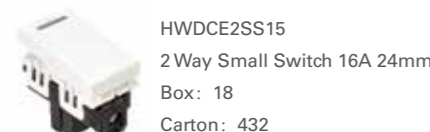
HWDCSS10  
1 Way Small Switch 10A 24mm  
Box: 18  
Carton: 432



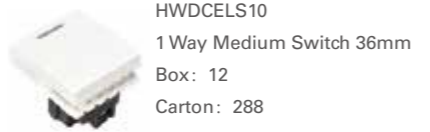
HWDCE2SS10  
2 Way Small Switch 10A 24mm  
Box: 18  
Carton: 432



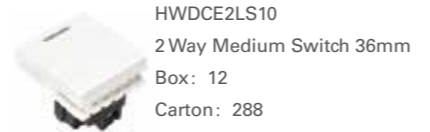
HWDCSS15  
1 Way Small Switch 16A 24mm  
Box: 18  
Carton: 432



HWDCE2SS15  
2 Way Small Switch 16A 24mm  
Box: 18  
Carton: 432



HWDCELS10  
1 Way Medium Switch 36mm  
Box: 12  
Carton: 288

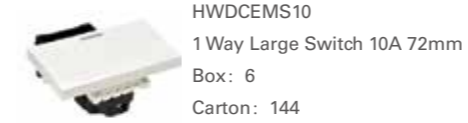


HWDCE2LS10  
2 Way Medium Switch 36mm  
Box: 12  
Carton: 288

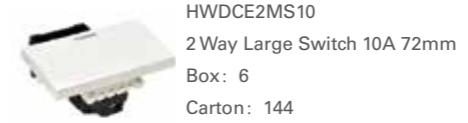
## HOME ELECTRIC

### Click Eco Series

American Wiring Devices



HWDCEMS10  
1 Way Large Switch 10A 72mm  
Box: 6  
Carton: 144



HWDCE2MS10  
2 Way Large Switch 10A 72mm  
Box: 6  
Carton: 144

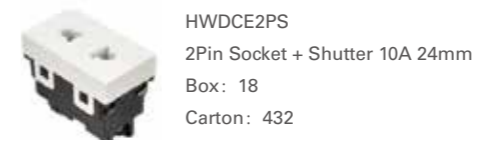


HWDCEBS  
Bell Switch 24mm  
Box: 18  
Carton: 432

## Sockets



HWDCE2P  
2Pin Socket 10A 24mm  
Box: 18  
Carton: 432



HWDCE2PS  
2Pin Socket + Shutter 10A 24mm  
Box: 18  
Carton: 432



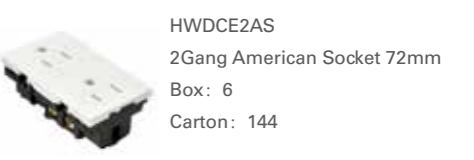
HWDCEFS  
2Pin Flat Socket 16A  
Box: 18  
Carton: 432



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



HWDCEAS  
American Socket 16A  
Box: 18  
Carton: 432



HWDCE2AS  
2Gang American Socket 72mm  
Box: 6  
Carton: 144



HWDCE2US  
2Gang 3P Universal American  
Socket 72mm  
Box: 6  
Carton: 144

## Accessories



HWDCEBM  
Blank Module 24mm  
Box: 36  
Carton: 846



HWDCEDS  
Data Socket 24mm  
Box: 18  
Carton: 432



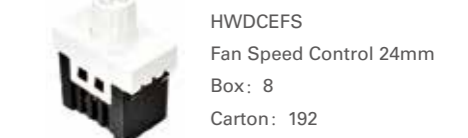
HWDCE4  
4core Tel Socket 24mm  
Box: 18  
Carton: 432



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



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



HWDCEFS  
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

## Color Selection



Aluminum

Brass

## Online Content



Floor Series

## Configuration Selection

Empty Box + Module Accessories

3-Module box OR

4-Module box OR OR

3-Module \* 2 box OR OR

6-Module box OR OR OR

## How To Order:





# FLOOR SERIES



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

## Empty Boxes



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



without modules shown

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



without modules shown

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



without modules shown

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



without modules shown

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**  
3.5mm Earphone Socket  
Box: 50  
Carton: 1000



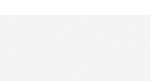
**HHEFSF60**  
Cannon Socket  
Box: 50  
Carton: 1000




**HHEFSF65**  
15 VGA Pin Socket  
Box: 50  
Carton: 1000




**HHEFSF66**  
15 VGA Hole Socket  
Box: 50  
Carton: 1000



**HHEFSF70**  
Empty Plate  
Box: 100  
Carton: 2000



**HHEFSF68**  
HDMI Socket  
Box: 50  
Carton: 1000



**HHEFSF6**  
USB Charger  
Box: 20  
Carton: 500

# 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 <b>ES:</b> euro standard	<b>3:</b> 3 gang <b>4:</b> 4 gang <b>5:</b> 5 gang	<b>Default:</b> no switch <b>S:</b> with main switch <b>S2USB:</b> with main switch with 2 USB

## Online Content



Extension Sockets

## Order Information

	<b>HHEESES3</b> European type 3 gang Box: 1 Carton: 60		<b>HHEESES4</b> European type 4 gang Box: 1 Carton: 40
	<b>HHEESES3S</b> European type 3 gang with switch Box: 1 Carton: 60		<b>HHEESES4S</b> European type 4 gang with switch Box: 1 Carton: 40
	<b>HHEESES3S2USB</b> European type 3 gang with switch 2USB Box: 1 Carton: 20		<b>HHEESES5S2USB</b> European type 5 gang with switch 2USB Box: 1 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, Himel Toolbox guarantee to always get the tools required.

## Features

- ◆ Set: 8 pieces / 18 pieces

## Selection Code

Range name

**HHETS**

Functionality

**8**

## Online Content



Tool Boxes

TS: Tool set

8: 8 individual tools  
18: 18 individual tools

## 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

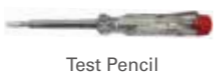


Electrical Tape 2M Tape Measure

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 2M Tape Measure



8 inch Adjustable Spanner

# 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 Strength (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
<b>HHE</b>	<b>ET</b>	<b>013</b>	<b>18</b>	<b>10</b>	<b>B</b>
<b>HHE:</b> Himel Home Electric	<b>ET:</b> Electrical Tape	<b>013:</b> 0.13mm	<b>18:</b> 18mm	<b>5:</b> 5m <b>10:</b> 10m <b>20:</b> 20m	<b>B:</b> Black <b>BL:</b> Blue <b>W:</b> White <b>G:</b> Green <b>R:</b> Red <b>Y:</b> Yellow <b>GREY:</b> Grey <b>YG:</b> Yellow/Green
		<b>015:</b> 0.15mm	<b>19:</b> 19mm	<b>5:</b> 5m <b>10:</b> 10m <b>20:</b> 20m	<b>B:</b> Black <b>BL:</b> Blue <b>W:</b> White <b>G:</b> Green <b>R:</b> Red <b>Y:</b> Yellow <b>YG:</b> Yellow/Green
		<b>018:</b> 0.18mm	<b>19:</b> 19mm	<b>20:</b> 20m	<b>B:</b> Black

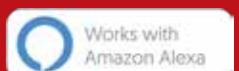
## Pc(S)/Carton Depend On The Length

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 convenience 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 <b>EU:</b> European <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
- ◆ Setting ScheduleTimer functionality

## Selection Code

Range name	Color
<b>HHES</b>	<b>BW</b>
<b>S:</b> Smart	<b>BW:</b> White <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

# 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 <b>D:</b> Dimmer

## Online Content



Smart Modules

# Contact us



## 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 Himel team

support@himel.com



## Contact local distributor

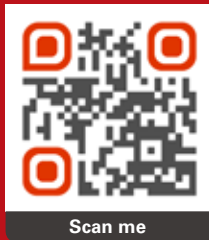
Company name:

Contact:

Tel:

Email:

Address:



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

Sep 2020



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