

Energy Distribution

# Retail Distribution Solutions

UAE Edition



**:hager**



**Hager.**  
**Safe & Simple.**

 **Hager. Safe & Simple.**


# Built to last

We provide you with a complete range of products and solutions for your electrical installations, from enclosures to modular protection devices to lighting controls.

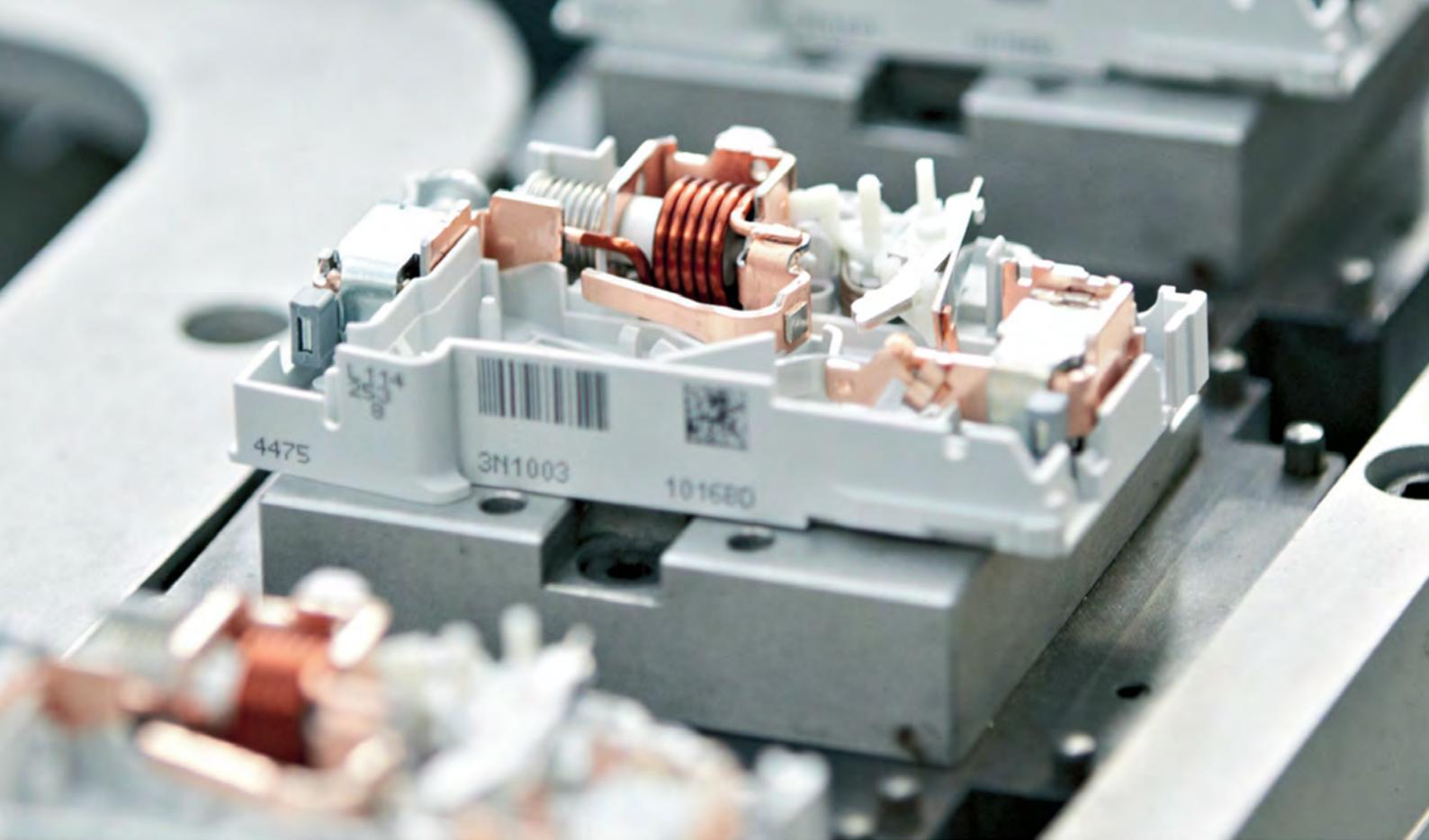
When you choose Hager, you're choosing quality that lasts through time. Our products are designed in Europe to be easy, fast, and simple to use. We do the work so you can have peace of mind.

 **Energy  
distribution**

 **Energy  
management**

 **Business and living  
space management**





Factory production of circuit breakers. Obernai, France.



Since **1955**, rooted in both **French** and **German** traditions.



**22** production sites globally



**12,900** employees worldwide



experts in **residential & commercial**



digital **e-catalogue and website**



**3,000** patents worldwide



solutions available in **more than 100** countries



present in the Middle East for **over 25 years**



technical, sales, training **support and customer service**



# The partner

for your  
electrical  
installations.

Enclosures  
Protection devices  
Control devices  
Weatherproof  
Cable management

**:hager**

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## 01 Distribution boards

invicta VT consumer units / invicta DR DIN rail distribution boards /  
invicta TPN distribution boards / ECB enclosures / dimensions



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## 02 Moulded case circuit breakers

h3 MCCBs x160 / h3 MCCBs x250 / h3 MCCBs h400-h630 /  
h3 MCCBs h1000 / h3 MCCBs h1600 / h3 MCCB accessories



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## 03 Modular protection devices

Miniature circuit breakers (MCB) / residual current breakers with overcurrent  
protection (RCBO) / residual current circuit breakers (RCCB) / HRC fuse carriers /  
modular contactors / latching relays / modular switches



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## 04 Energy and lighting control

Motion & presence detectors / time lag switches / analogue switches



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## 05 Weatherproof

IP66 switches & sockets / IP55 switches & sockets / IP66 isolator



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## 06 Cable management

Underfloor system



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Tailored to your needs

# The right enclosure for final distribution

We provide a complete range of final distribution boards that can be equipped with Hager final distribution devices. From single phase consumer units to row-type DIN rail distribution boards to TPN Type B distribution boards, whatever your project, you'll find a solution to match your installation requirements.



## DIN rail distribution boards

Designed for optimal reliability and flexibility, our DIN rail distribution boards deliver a complete solution for today's residential and commercial installations.



## TPN distribution boards

Hager's invicta type B distribution boards deliver a complete solution for all your residential and commercial installations. The range is available in both single busbar and split busbar configurations, complete with wire set, for high level of flexibility and functionality.



### Characteristics

Easy to install, compact in size and with ample wiring space, the consumer unit range is available as flush and surface mounting enclosures and dedicated for indoor use. The range includes boxes with capacities of 1 row with 6 to 18 modules.

### Delivered with

- neutral and earth terminal
- plain door
- with & without busbar

### Technical data

- class I
- IP 40
- colour: RAL 9002
- steel epoxy powder coated enclosure
- backbox and frame : 1.0mm, door 1.0mm
- 70mm depth
- DIN rail mounting
- nominal current (In): 100A for busbar version



VT12FM

### Consumer unit with 100A 1P busbar flush mounting

Description	Nr. of outgoing ways	Cat. ref
1 row, 6	4	<b>VT04FM</b>
1 row, 8	6	<b>VT06FM</b>
1 row, 10	8	<b>VT08FM</b>
1 row, 12	10	<b>VT10FM</b>
1 row, 14	12	<b>VT12FM</b>
1 row, 18	16	<b>VT16FM</b>



VT16SM

### Consumer unit with 100A 1P busbar surface mounting

Description	Nr. of outgoing ways	Cat. ref
1 row, 6	4	<b>VT04SM</b>
1 row, 8	6	<b>VT06SM</b>
1 row, 10	8	<b>VT08SM</b>
1 row, 12	10	<b>VT10SM</b>
1 row, 14	12	<b>VT12SM</b>
1 row, 18	16	<b>VT16SM</b>



VT08FD-T

### Consumer unit without busbar flush mounting

Description	Nr. of modules	Cat. ref
1 row, 8	8	<b>VT08FD-T</b>
1 row, 12	12	<b>VT12FD-T</b>
1 row, 18	18	<b>VT18FD-T</b>



VT12SD-T

### Consumer unit without busbar surface mounting

Description	Nr. of modules	Cat. ref
1 row, 8	8	<b>VT08SD-T</b>
1 row, 12	12	<b>VT12SD-T</b>
1 row, 18	18	<b>VT18SD-T</b>

### Characteristics

The DIN rail boards are a safe and reliable solution for distributing and controlling power, compatible with various types of DIN rail modular components. The Invicta DR range is easy to install and available in flush and surface mounting enclosures, in 16 or 24 module width options. The range includes boxes with capacities ranging from 1 to 6 rows with 16 to 96 modules, as well as 4 to 6 rows with 96 to 144 modules.

### Delivered with

- plain metallic door
- adjustable & removable DIN rail chassis

### Technical data

- class I
- IP 40
- colour: RAL 9002
- steel epoxy powder coated enclosure
- backbox and frame : 1.2mm, door 1.0mm
- 110mm depth
- DIN rail mounting
- door earthing to ensure earth continuity
- reversible doors



DR32F

### invicta DR 16 modules flush mounting

Description	Cat. ref
1 row, 16 ■	<b>DR16F</b>
2 rows, 32 ■	<b>DR32F</b>
3 rows, 48 ■	<b>DR48F</b>
4 rows, 64 ■	<b>DR64F</b>
5 rows, 80 ■	<b>DR80F</b>
6 rows, 96 ■	<b>DR96F</b>



DR48S

### invicta DR 16 modules surface mounting

Description	Cat. ref
1 row, 16 ■	<b>DR16S</b>
2 rows, 32 ■	<b>DR32S</b>
3 rows, 48 ■	<b>DR48S</b>
4 rows, 64 ■	<b>DR64S</b>
5 rows, 80 ■	<b>DR80S</b>
6 rows, 96 ■	<b>DR96S</b>



DR424F

### invicta DR 24 modules flush mounting

Description	Cat. ref
4 rows, 96 ■	<b>DR424F</b>
5 rows, 120 ■	<b>DR524F</b>
6 rows, 144 ■	<b>DR624F</b>

### invicta DR 24 modules surface mounting

Description	Cat. ref
4 rows, 96 ■	<b>DR424S</b>
5 rows, 120 ■	<b>DR524S</b>
6 rows, 144 ■	<b>DR624S</b>

### Accessories

Description	Cat. ref
joining kits for flush boards	<b>JK01FK</b>
joining kits for surface boards	<b>JK01SK</b>
1 ■ blanking strip	<b>P032H</b>
keylock	<b>VZ303</b>
plastic handle lock	<b>VZ300</b>

### Characteristics

Invicta 125A Type B distribution board range is a perfect solution for both residential and commercial installations. The range includes 125A boards with multiple incomer choices, available in flush and surface mounting enclosures. The range offers a variety of options, including boxes with capacities ranging from 4 to 24 TP ways, available in both fixed and split load types.

**Complies with: IEC 61 439 – 1 & 3  
ASTA certified & ADQCC approved**

### Delivered with

- 125A rated pan assembly
- height adjustable & removable busbar assembly
- neutral and earth brass terminal
- plain metallic door
- door earthing to ensure earth continuity
- removable pre punched top and bottom gland plates.
- I/C link kit suitable for 3 pole modular isolator (up to 125A)
- MCBs (up to 63A) or RCCBs (up to 125A)

### Technical data

- class I
- IP41
- colour : RAL 9002
- steel epoxy powder coated enclosure
- backbox and frame : 1.2mm, door 1.0mm
- 120mm depth
- busbar current rating: 125A
- rated voltage (U<sub>n</sub>/U<sub>e</sub>): 415V ac - 50Hz
- rated insulation voltage (U<sub>i</sub>): 690V ac
- rated impulse withstand voltage (U<sub>imp</sub>): 4kV
- rated short circuit withstand (I<sub>cw</sub>): 17kA for 0.25 sec.
- suitable for modular incomers (125A) and modular outgoing (63A)
- incomer cutout width: 13 mod
- incomer DIN rail mounting
- reversible doors
- accessories like key lock, DIN rail extension boxes etc ...

### invicta TPN125 type B distribution boards fixed load boards



JK1B08F2

Description	Cat. ref surface	flush
4 ways	<b>JK1B04S2</b>	<b>JK1B04F2</b>
6 ways	<b>JK1B06S2</b>	<b>JK1B06F2</b>
8 ways	<b>JK1B08S2</b>	<b>JK1B08F2</b>
10 ways	<b>JK1B10S2</b>	<b>JK1B10F2</b>
12 ways	<b>JK1B12S2</b>	<b>JK1B12F2</b>
14 ways	<b>JK1B14S2</b>	<b>JK1B14F2</b>
16 ways	<b>JK1B16S2</b>	<b>JK1B16F2</b>
18 ways	<b>JK1B18S2</b>	<b>JK1B18F2</b>
24 ways	<b>JK1B24S2</b>	<b>JK1B24F2</b>

### invicta TPN125 type B distribution boards split busbar with wire set

-to fit up to 125A isolator, 2 nos of 4P RCCB (section A and B) as incomers



JK1B044F2WA316

No. of out going ways section A	section B	Cat. ref surface	flush
2	2	<b>JK1B022S2WA316</b>	<b>JK1B022F2WA316</b>
4	2	<b>JK1B042S2WA316</b>	<b>JK1B042F2WA316</b>
4	4	<b>JK1B044S2WA316</b>	<b>JK1B044F2WA316</b>
6	2	<b>JK1B062S2WA316</b>	<b>JK1B062F2WA316</b>
6	4	<b>JK1B064S2WA316</b>	<b>JK1B064F2WA316</b>
8	2	<b>JK1B082S2WA316</b>	<b>JK1B082F2WA316</b>

### invicta TPN125 type B distribution boards split busbar without wire set

- to fit up to 125A isolator, 2 nos of 4P RCCB (sectionA and B) as incomers



JK1B066F2

No. of out going ways section A	section B	Cat. ref surface	flush
6	6	<b>JK1B066S2</b>	<b>JK1B066F2</b>
8	4	<b>JK1B084S2</b>	<b>JK1B084F2</b>
8	6	<b>JK1B086S2</b>	<b>JK1B086F2</b>
8	8	<b>JK1B088S2</b>	<b>JK1B088F2</b>
10	4	<b>JK1B104S2</b>	<b>JK1B104F2</b>

### Incoming link kits for JK1 TPN 125 Type B distribution board



JK1L1253MM

Description	Cat. ref
3P 80A - 125A MCB incomer kit	<b>JK1L1253MM</b>
4P 80A - 125A MCB incomer kit	<b>JK1L1254MM</b>
3P 100A switch or RCCB incomer kit	<b>JK1L1003SR</b>
3P 63A MCB / switch disconnecter / 63A - 100A RCCB, fixed & split load	<b>JK1L1003SMSL</b>
3P 125A switch disconnecter kit	<b>JK1L1253SK</b>
4P 63A MCB / switch disconnecter / 63A - 100A RCCB, fixed & split load	<b>JK1L1004SMSL</b>
125A direct connection kit	<b>JK2L2504D</b>
4P isolator + RCCB incomer kit	<b>JK1L1004SR</b>
3P cable spreader links and barrier for 125A	<b>JK1XCSP</b>

### Cable spreader boxes

Description	Cat. ref for surface enclosures	for flush enclosures
cable spreader box	<b>JK2E01S</b>	<b>JK2E01F</b>

### DIN rail extension boxes

Description	Cat. ref for surface enclosures	for flush enclosures
16 ■	<b>JK2E16S</b>	<b>JK2E16F</b>
32 ■	<b>JK2E32S</b>	<b>JK2E32F</b>
48 ■	<b>JK2E48S</b>	<b>JK2E48F</b>

### Accessories for JK1 Type B distribution board



JK1XKLS



JK1XBSP

Description	Cat. ref
top & bottom gland plate with screws	<b>JK1XGP</b>
1 ■ blank	<b>P032H</b>
single phase blank for TPN boards	<b>JK1XBSP</b>
busbar protective boot	<b>P100H</b>
key lock	<b>JK1XKLS</b>
incomer shroud 13 ■	<b>JK2XISS</b>
neutral terminal cover IP2X	<b>JK1XNC</b>

### Characteristics

Invicta 250A Type B distribution board range is a perfect solution for commercial & industrial installations. The range includes both 250A boards with MCCB incomer or direct connection. The range is presented in surface or flush mounting enclosures and includes boxes with capacities of 4 to 24 TP ways in fixed load types.

**Complies with: IEC 61 439 – 1 & 3  
ASTA certified & ADQCC approved**

### Delivered with

- 250A rated pan assembly
- height adjustable & removable busbar assembly
- neutral and earth brass terminal
- plain metallic door
- door earthing to ensure earth continuity
- removable pre punched top and bottom gland plates

### Technical data

- class I
- IP41
- colour : RAL 9002
- steel epoxy powder coated enclosure
- backbox and frame : 1.2mm, door 1.0mm
- 120mm depth
- busbar current rating: 250A / 200A (ADQCC)
- rated voltage (U<sub>n</sub> /U<sub>e</sub>) : 415V ac - 50Hz
- rated insulation voltage (U<sub>i</sub>) : 690V ac
- rated impulse withstand voltage (U<sub>imp</sub>) : 4kV
- rated short circuit withstand (I<sub>cw</sub>) : 17kA for 0.25 sec.
- suitable for non-modular incomers and modular outgoing
- reversible doors
- accessories like key lock, DIN rail extension boxes etc ...
- 13 mod blank supplied with link kit to suit JK switch/MCCB incomers
- **link kits are not supplied as standard, please order i/c link kits separately**



JK2B12F2

### invicta TPN250 Type B distribution boards fixed load boards

Description	Cat. ref surface	flush
4 ways	<b>JK2B04S2</b>	<b>JK2B04F2</b>
6 ways	<b>JK2B06S2</b>	<b>JK2B06F2</b>
8 ways	<b>JK2B08S2</b>	<b>JK2B08F2</b>
10 ways	<b>JK2B10S2</b>	<b>JK2B10F2</b>
12 ways	<b>JK2B12S2</b>	<b>JK2B12F2</b>
14 ways	<b>JK2B14S2</b>	<b>JK2B14F2</b>
16 ways	<b>JK2B16S2</b>	<b>JK2B16F2</b>
18 ways	<b>JK2B18S2</b>	<b>JK2B18F2</b>
24 ways	<b>JK2B24S2</b>	<b>JK2B24F2</b>

### Incoming link kits



JK2L2503MH

Description	Cat. ref
3P 160A switch disconnector incomer kit (JK160S)	<b>JK2L1603SK</b>
3P 200/250A switch disconnector incomer kit (JK200S/JK250S)	<b>JK2L2503SK</b>
3P x160A frame MCCB (upto 160A)	<b>JK2L1603MH</b>
3P x250 frame MCCB (upto 250A)	<b>JK2L2503MH</b>
3P 200/250A direct connection kit	<b>JK2L2503D</b>
4P x160A frame MCCB (upto 160A)	<b>JK2L1604MH</b>
4P x250 frame MCCB (upto 250A)	<b>JK2L2504MH</b>
4P 200/250A direct connection kit	<b>JK2L2504D</b>

### Extension boxes for JK2 TPN250 Type B

Description	Cat. ref surface	flush
16 modules DIN extension box (15 modules available)	<b>JK2E16S</b>	<b>JK2E16F</b>
32 modules DIN extension box	<b>JK2E32S</b>	<b>JK2E32F</b>
48 modules DIN extension box	<b>JK2E48S</b>	<b>JK2E48F</b>

### Spreader boxes for JK2 TPN250 Type B

Description	Cat. ref surface	flush
JK2 cable spreader box	<b>JK2E01S</b>	<b>JK2E01F</b>



P032H JK1XBSP



JK2XB

**Accessories for JK2 TPN250 type B distribution boards**

Description	Cat. ref.
top and bottom gland plate with screws	<b>JK2XGP</b>
1 ■ blank	<b>P032H</b>
busbar protective boot	<b>P100H</b>
single phase blank for TPN boards	<b>JK1XBSP</b>
key lock	<b>JK1XKLS</b>
neutral terminal cover IP2X	<b>JK1XNC</b>
13 ■ blank for 125/160A switch disconnecter	<b>JK2XBSK1</b>
13 ■ blank for 200/250A switch disconnecter	<b>JK2XBSK2</b>
13 ■ blank for x160 frame MCCB	<b>JK2XBMH1</b>
13 ■ blank for x250 frame MCCB	<b>JK2XBMH2</b>

**ECB enclosure**

**Characteristics**

- surface mounting
- 1.2 mm thickness sheet steel
- epoxy Powder coated
- colour : RAL 9002

**Technical data**

- neutral and Earth terminal up to 125A. For higher ratings neutral bar with bolts and nuts as standard
- removable pre punched top and bottom gland plates
- Dual knockouts
- sufficient cabling space
- supplied without MCCB

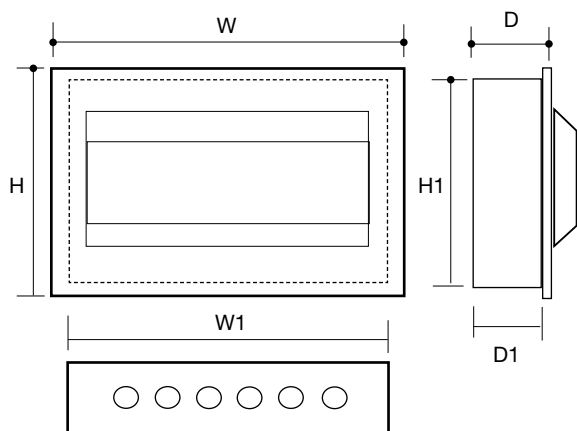


MH1253S4

**ECB enclosure**

Description	Cat. ref.
ECB enclosure for x160 MCCB	<b>MH1253S4</b>
ECB enclosure for x250 MCCB	<b>MH2503S4</b>
ECB enclosure for h400 MCCB	<b>MH4003S2</b>
ECB enclosure for h630 MCCB	<b>MH6303S2</b>

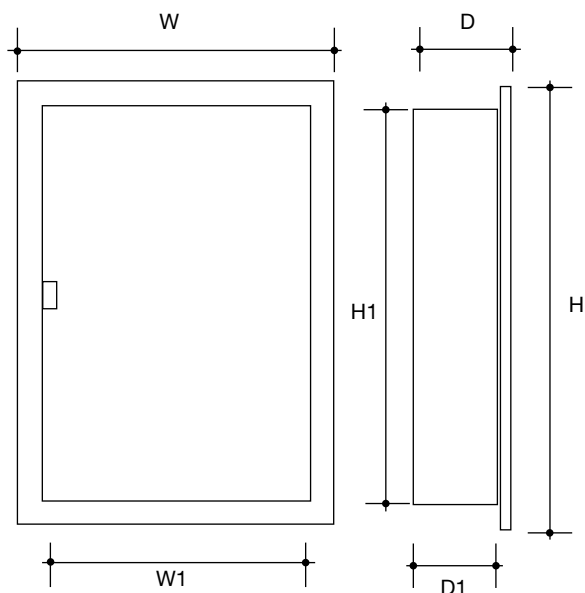
invicta VT consumer units



Dimensions (mm)

Reference	H	W	D	H1	W1	D1
VT04FM	251	234	92	226	208	70
VT06FM	251	270	92	226	244	70
VT08FM	251	306	92	226	280	70
VT10FM	251	270	92	226	244	70
VT12FM	251	378	92	226	352	70
VT16FM	251	450	92	226	424	70
VT04SM	231	214	92	226	208	70
VT06SM	231	250	92	226	244	70
VT08SM	231	286	92	226	280	70
VT10SM	231	322	92	226	316	70
VT12SM	231	358	92	226	352	70
VT16SM	231	430	92	226	424	70
VT08FD-T	251	270	92	226	244	70
VT12FD-T	251	270	92	226	244	70
VT18FD-T	251	450	92	226	424	70
VT08SD-T	231	250	92	226	244	70
VT12SD-T	231	322	92	226	316	70
VT18SD-T	231	430	92	226	424	70

invicta DR DIN rail boards



Dimensions (mm)

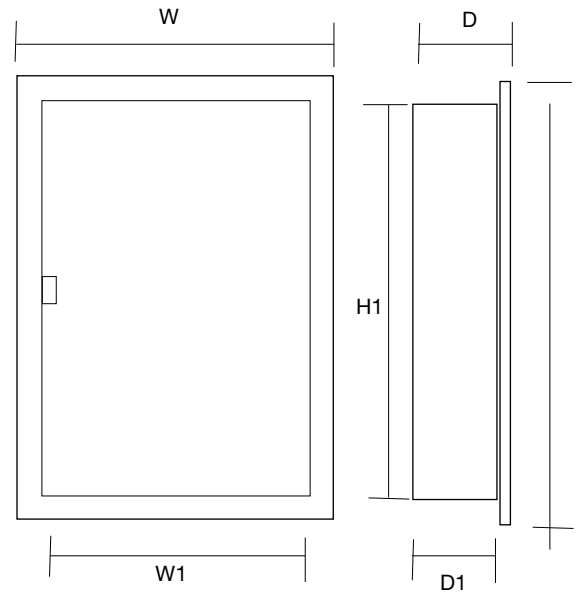
References (flush)	H	W	D	H1	W1	D1
DR16F	350	430	110	320	400	110
DR32F	500	430	110	470	400	110
DR48F	650	430	110	620	400	110
DR64F	800	430	110	770	400	110
DR80F	950	430	110	920	400	110
DR96F	1100	430	110	1070	400	110
DR424F	800	572	115	770	542	110
DR524F	950	572	115	920	542	110
DR624F	1110	572	115	1070	542	110

References (surface)	H	W	D	H1	W1	D1
DR16S	325	405	110	320	400	110
DR32S	475	405	110	470	400	110
DR48S	625	405	110	620	400	110
DR64S	775	405	110	770	400	110
DR80S	925	405	110	920	400	110
DR96S	1075	405	110	1070	400	110
DR424S	775	547	115	770	542	110
DR524S	925	547	115	920	542	110
DR624S	1075	547	115	1070	542	110

**invicta 125A - TPN distribution boards - fixed busbar**

Reference (surface)	H	W	D	H1	W1	D1
JK1B04S2	495	445	125	490	440	120
JK1B06S2	555	445	125	550	440	120
JK1B08S2	605	445	125	600	440	120
JK1B10S2	660	445	125	655	440	120
JK1B12S2	715	445	125	710	440	120
JK1B14S2	770	445	125	765	440	120
JK1B16S2	820	445	125	815	440	120
JK1B18S2	940	445	125	935	440	120
JK1B24S2	1105	445	125	1100	440	120

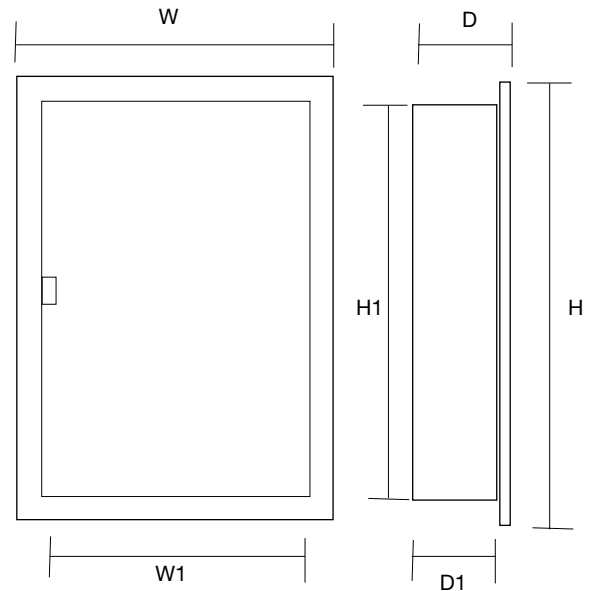
Reference (flush)	H	W	D	H1	W1	D1
JK1B04F2	520	470	125	490	440	120
JK1B06F2	580	470	125	550	440	120
JK1B08F2	630	470	125	600	440	120
JK1B10F2	685	470	125	655	440	120
JK1B12F2	740	470	125	710	440	120
JK1B14F2	795	470	125	765	440	120
JK1B16F2	845	470	125	815	440	120
JK1B18F2	965	470	125	935	440	120
JK1B24F2	1130	470	125	1100	440	120



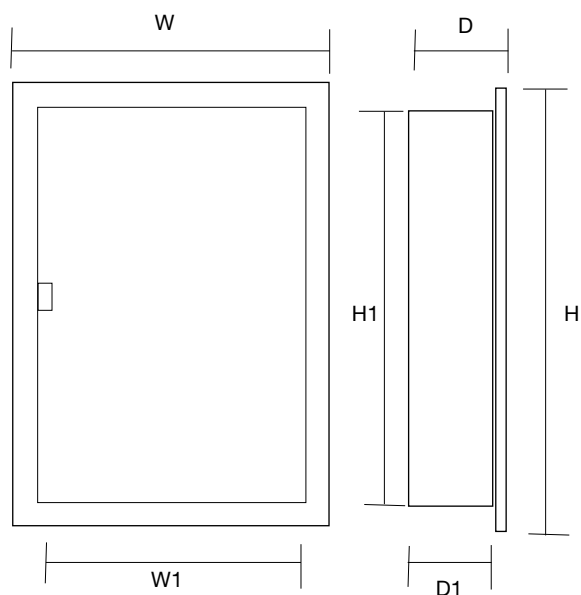
**invicta 125A - TPN distribution boards - split busbar**

Reference (surface)	H	W	D	H1	W1	D1
JK1B022S2WA316	555	445	125	550	440	120
JK1B042S2WA316	610	445	125	605	440	120
JK1B044S2WA316	665	445	125	660	440	120
JK1B062S2WA316	665	445	125	660	440	120
JK1B064S2WA316	720	445	125	715	440	120
JK1B082S2WA316	720	445	125	715	440	120
JK1B066S2	775	445	125	770	440	120
JK1B084S2	775	445	125	770	440	120
JK1B086S2	830	445	125	825	440	120
JK1B088S2	885	445	125	880	440	120
JK1B104S2	935	445	125	930	440	120

Reference (flush)	H	W	D	H1	W1	D1
JK1B022F2WA316	580	470	125	550	440	120
JK1B042F2WA316	635	470	125	605	440	120
JK1B044F2WA316	690	470	125	660	440	120
JK1B062F2WA316	690	470	125	660	440	120
JK1B064F2WA316	745	470	125	715	440	120
JK1B082F2WA316	745	470	125	715	440	120
JK1B066F2	800	470	125	770	440	120
JK1B084F2	800	470	125	770	440	120
JK1B086F2	855	470	125	825	440	120
JK1B088F2	910	470	125	880	440	120
JK1B104F2	960	470	125	930	440	120







**invicta 250A - TPN distribution boards**

Reference (surface)	H	W	D	H1	W1	D1
<b>JK2B04S2</b>	665	445	125	650	440	120
<b>JK2B06S2</b>	705	445	125	700	440	120
<b>JK2B08S2</b>	760	445	125	755	440	120
<b>JK2B10S2</b>	815	445	125	810	440	120
<b>JK2B12S2</b>	865	445	125	860	440	120
<b>JK2B14S2</b>	920	445	125	915	440	120
<b>JK2B16S2</b>	975	445	125	970	440	120
<b>JK2B18S2</b>	1030	445	125	1025	440	120
<b>JK2B24S2</b>	1195	445	125	1190	440	120

Reference (flush)	H	W	D	H1	W1	D1
<b>JK2B04F2</b>	680	470	125	650	440	120
<b>JK2B06F2</b>	730	470	125	700	440	120
<b>JK2B08F2</b>	785	470	125	755	440	120
<b>JK2B10F2</b>	840	470	125	810	440	120
<b>JK2B12F2</b>	890	470	125	860	440	120
<b>JK2B14F2</b>	945	470	125	915	440	120
<b>JK2B16F2</b>	1000	470	125	970	440	120
<b>JK2B18F2</b>	1055	470	125	1025	440	120
<b>JK2B24F2</b>	1220	470	125	1190	440	120

**invicta TPN board accessories**

Reference	H	W	D	H1	W1	D1
<b>JK2E01F</b>	300	470	125	270	440	120
<b>JK2E01S</b>	275	445	125	270	440	120
<b>JK2E16S</b>	275	445	125	270	440	120
<b>JK2E32S</b>	425	445	125	420	440	120
<b>JK2E48S</b>	575	445	125	570	440	120
<b>JK2E16F</b>	300	470	125	270	440	120
<b>JK2E32F</b>	450	470	125	420	440	120
<b>JK2E48F</b>	600	470	125	570	440	120

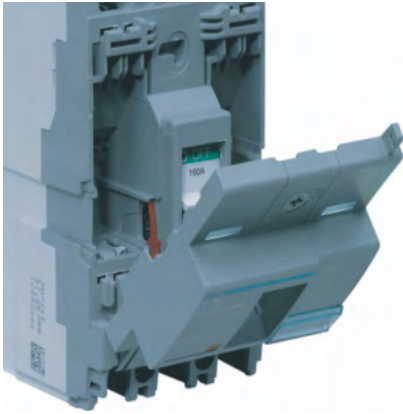
Guaranteed protection

# h3 MCCB Moulded case circuit breaker

H3 range of MCCBs - the reliable solution for protecting low voltage distribution systems against overloads and short circuits.

With a compact size and available in 1,2,3,4 pole configurations, these state of the art circuit breakers offer installers and panel builders a wide range of features and benefits, including a breaking capacity ranging from 18kA to 70kA and options for built-in thermal-magnetic or electronic trip units, ensuring high protection performance.





## 01 Easy mounting of auxiliaries

Easy opening of secondary cover, clip-on type auxiliaries.



## 02 Visibility of auxiliaries fitted

Indicates type of auxiliary mounted in the circuit breaker.



## 03 Integrated padlocking facility

A very good solution for maintenance.



## 04 Complete range of accessories

Rotary handles, padlocks, motors, terminal covers, a wide range of terminals & connections.



## 05 Breaking capacity

18 to 70kA, Icu 415V AC, covers all applications.

### Characteristics

- Thermal magnetic trip unit
- Two versions:
  - Z version: fixed thermal and fixed magnetic
  - U version: adjustable thermal and fixed magnetic
- Adjustable thermal: 0.63 - 0.8 - 1 x In
- Access to mechanical test button on cover
- Lockable cover protects MCCB settings
- Integrated padlocking handle: Ø 4mm
- Cage terminals

- Connection capacity: 95mm<sup>2</sup> rigid cables, 70mm<sup>2</sup> flexible cables
- Fixed thermal: 1x In

**Complies to the standard IEC 60 947-2**

### Trip-free switches :

- Allows tripping at distance using a voltmeterical trip unit (optional)
- AC 22/23A
- Complies to the standard IEC 60 947-3

### MCCBs x160 18kA

Breaking capacity Icu:18kA (400/415 V AC) Ics: 18kA



HDA125Z

Description	In (A)	Cat. ref.			
		1P	2P	3P	4P
fixed thermal 1 x In fixed magnetic > 10 x In	16	HDA014Z	HDA015Z	HDA016Z	HDA017Z
	20	HDA018Z	HDA019Z	HDA020Z	HDA021Z
	25	HDA023Z	HDA024Z	HDA025Z	HDA026Z
	32	HDA030Z	HDA031Z	HDA032Z	HDA033Z
	40	HDA038Z	HDA039Z	HDA040Z	HDA041Z
	50	HDA048Z	HDA049Z	HDA050Z	HDA051Z
	63	HDA061Z	HDA062Z	HDA063Z	HDA064Z
	80	HDA078Z	HDA079Z	HDA080Z	HDA081Z
	100	HDA098Z	HDA099Z	HDA100Z	HDA101Z
	125	HDA123Z	HDA124Z	HDA125Z	HDA126Z
adjustable thermal 0.63 - 0.8 - 1 x In fixed magnetic > 10 x In	160	-	HDA159Z	HDA160Z	HDA161Z
	25	-	-	HDA025U	HDA026U
	40	-	-	HDA040U	HDA041U
	63	-	-	HDA063U	HDA064U
	80	-	-	HDA080U	HDA081U
	100	-	-	HDA100U	HDA101U
	125	-	-	HDA125U	HDA126U
	160	-	-	HDA160U	HDA161U

### MCCBs x160 25kA

Breaking capacity Icu: 25kA (400/415 V AC) Ics: 20kA



HHA161U

Description	In (A)	Cat. ref.			
		1P	2P	3P	4P
fixed thermal 1 x In fixed magnetic > 10 x In	16	HHA014Z	HHA015Z	HHA016Z	HHA017Z
	20	HHA018Z	HHA019Z	HHA020Z	HHA021Z
	25	HHA023Z	HHA024Z	HHA025Z	HHA026Z
	32	HHA030Z	HHA031Z	HHA032Z	HHA033Z
	40	HHA038Z	HHA039Z	HHA040Z	HHA041Z
	50	HHA048Z	HHA049Z	HHA050Z	HHA051Z
	63	HHA061Z	HHA062Z	HHA063Z	HHA064Z
	80	HHA078Z	HHA079Z	HHA080Z	HHA081Z
	100	HHA098Z	HHA099Z	HHA100Z	HHA101Z
	125	HHA123Z	HHA124Z	HHA125Z	HHA126Z
adjustable thermal 0.63 - 0.8 - 1 x In fixed magnetic > 10 x In	160	-	HHA159Z	HHA160Z	HHA161Z
	25	-	-	HHA025U	HHA026U
	40	-	-	HHA040U	HHA041U
	63	-	-	HHA063U	HHA064U
	80	-	-	HHA080U	HHA081U
	100	-	-	HHA100U	HHA101U
	125	-	-	HHA125U	HHA126U
	160	-	-	HHA160U	HHA161U



HNA125Z

### MCCBs x160 40kA

Breaking capacity Icu: 40kA (400/415 V AC) Ics: 20kA

Description	In (A)	Cat. ref.	
		3P	4P
fixed thermal 1 x In fixed magnetic > 10 x In	16	<b>HNA016Z</b>	<b>HNA017Z</b>
	20	<b>HNA020Z</b>	<b>HNA021Z</b>
	25	<b>HNA025Z</b>	<b>HNA026Z</b>
	32	<b>HNA032Z</b>	<b>HNA033Z</b>
	40	<b>HNA040Z</b>	<b>HNA041Z</b>
	50	<b>HNA050Z</b>	<b>HNA051Z</b>
	63	<b>HNA063Z</b>	<b>HNA064Z</b>
	80	<b>HNA080Z</b>	<b>HNA081Z</b>
	100	<b>HNA100Z</b>	<b>HNA101Z</b>
	125	<b>HNA125Z</b>	<b>HNA126Z</b>
adjustable thermal 0.63 - 0.8 - 1 x In fixed magnetic > 10 x In	160	<b>HNA160Z</b>	<b>HNA161Z</b>
	25	<b>HNA025U</b>	<b>HNA026U</b>
	40	<b>HNA040U</b>	<b>HNA041U</b>
	63	<b>HNA063U</b>	<b>HNA064U</b>
	80	<b>HNA080U</b>	<b>HNA081U</b>
	100	<b>HNA100U</b>	<b>HNA101U</b>
125	<b>HNA125U</b>	<b>HNA126U</b>	
160	<b>HNA160U</b>	<b>HNA161U</b>	



HNA161U

### Trip-free switches x160

suitable for AC22A / AC 23A  
Ue: 415 V AC  
Icw (1s): 2 kA

Description	In (A)	Cat. ref.	
		3P	4P
trip-free switches x160	125	<b>HCA125Z</b>	<b>HCA126Z</b>
	160	<b>HCA160Z</b>	<b>HCA161Z</b>



HCA160Z

### Characteristics

- Thermal magnetic trip unit
- Two versions:
  - Z version: fixed thermal and fixed magnetic
  - U version: adjustable thermal & magnetic
- Access to mechanical test button on cover
- Lockable cover protects MCCB settings
- Integrated padlocking handle: Ø 4mm
- Direct connection with palm lug max. width: 25mm
- Connection capacity: 185mm<sup>2</sup> rigid cables, 150mm<sup>2</sup> flexible cables
- Z version
  - Fixed thermal: 1x I<sub>n</sub>
  - Fixed magnetic: ≥10 x I<sub>n</sub>

- U version
  - Adjustable thermal: 0.63, 0.8, 1 x I<sub>n</sub>
  - Adjustable magnetic:
    - 6 - 8 - 10 - 13 x I<sub>n</sub> (100 - 200A)
    - 5 - 7 - 9 - 11 x I<sub>n</sub> (250A)

**Complies to the standard IEC 60 947-2**

### Trip-free switches :

- Allows tripping at distance using a voltmeterical trip unit (optional)
- AC 22/23A
- Complies to the standard IEC 60 947-3



HHB100Z

### MCCBs x250 25kA

Breaking capacity I<sub>cu</sub>: 25kA (400/415 V AC) I<sub>cs</sub>: 20kA

Description	I <sub>n</sub> (A)	Cat. ref. 3P	4P
fixed thermal 1 x I <sub>n</sub> fixed magnetic ≥10 x I <sub>n</sub>	100	<b>HHB100Z</b>	<b>HHB101Z</b>
	125	<b>HHB125Z</b>	<b>HHB126Z</b>
	160	<b>HHB160Z</b>	<b>HHB161Z</b>
	200	<b>HHB200Z</b>	<b>HHB201Z</b>
	250	<b>HHB250Z</b>	<b>HHB251Z</b>
adjustable thermal 0.63 - 0.8 - 1x I <sub>n</sub> adjustable magnetic 6 - 8 - 10 - 13 x I <sub>n</sub> (100 - 200A) 5 - 7 - 9 - 11 x I <sub>n</sub> (250A)	100	<b>HHB100U</b>	<b>HHB101U</b>
	125	<b>HHB125U</b>	<b>HHB126U</b>
	160	<b>HHB160U</b>	<b>HHB161U</b>
	200	<b>HHB200U</b>	<b>HHB201U</b>
	250	<b>HHB250U</b>	<b>HHB251U</b>
3P, 3 trip units 4P, neutral setting: 0 or 100%	250	<b>HHB250U</b>	<b>HHB251U</b>



HNB100U

### MCCBs x250 40kA

Breaking capacity I<sub>cu</sub>: 40kA (400/415 V AC) I<sub>cs</sub>: 20kA

Description	I <sub>n</sub> (A)	Cat. ref. 3P	4P
fixed thermal 1 x I <sub>n</sub> fixed magnetic ≥ 10 x I <sub>n</sub>	100	<b>HNB100Z</b>	<b>HNB101Z</b>
	125	<b>HNB125Z</b>	<b>HNB126Z</b>
	160	<b>HNB160Z</b>	<b>HNB161Z</b>
	200	<b>HNB200Z</b>	<b>HNB201Z</b>
	250	<b>HNB250Z</b>	<b>HNB251Z</b>
adjustable thermal 0.63 - 0.8 - 1x I <sub>n</sub> adjustable magnetic 6 - 8 - 10 - 13 x I <sub>n</sub> (100 - 200A) 5 - 7 - 9 - 11 x I <sub>n</sub> (250A)	100	<b>HNB100U</b>	<b>HNB101U</b>
	125	<b>HNB125U</b>	<b>HNB126U</b>
	160	<b>HNB160U</b>	<b>HNB161U</b>
	200	<b>HNB200U</b>	<b>HNB201U</b>
	250	<b>HNB250U</b>	<b>HNB251U</b>
3P, 3 trip units 4P, neutral setting: 0 or 100%	250	<b>HNB250U</b>	<b>HNB251U</b>



HCB250Z

### Trip-free switches x250

suitable for AC 22/23A  
U<sub>e</sub>: 415VAC  
I<sub>cw</sub> (1s): 3 kA

Description	I <sub>n</sub> (A)	Cat. ref. 3P	4P
trip-free switches x250	250	<b>HCB250Z</b>	<b>HCB251Z</b>

### Characteristics

- Access to mechanical test button on cover
- Lockable cover protects MCCB settings
- Direct connection with palm lug max. width: 30 mm
- Connection capacity: 240mm<sup>2</sup> rigid cables, 240mm<sup>2</sup> flexible cables
- Thermal magnetic trip unit TM:
  - thermal adjustment: from 0.63 to 1 x I<sub>n</sub>
  - magnetic adjustment: from 6 to 12 x I<sub>n</sub>

- Electronic trip unit LSI
  - long delay (thermal equivalent) adjustable: I<sub>r</sub> = 0.4 to 1 x I<sub>n</sub>
  - short delay (magnetic equivalent) adjustable: 2.5 to 10 x I<sub>r</sub> (400A) 2.5 to 8 x I<sub>r</sub> (630A)
  - time delay: 0.1 – 0.2 s
  - 3P & 4P (adjustable neutral 0 - 50% - 100%)

**Complies to the standard IEC 60 947-2**

### Trip-free switches :

- Allows tripping at distance using a voltmeterical trip unit (optional)
- AC 22/23A
- Complies to the standard IEC 60 947-3



HHD400U

### MCCBs h400 25kA TM

Breaking capacity I<sub>cu</sub>: 25kA (400/415 V AC) I<sub>cs</sub>: 25kA

Description	I <sub>n</sub> (A)	Cat. ref. 3P	4P
adjustable thermal: 0.63 to 1 x I <sub>n</sub>	250	<b>HHD250U</b>	-
adjustable magnetic: 6 to 12 x I <sub>n</sub>	400	<b>HHD400U</b>	-

### MCCBs h400 50kA TM

Breaking capacity I<sub>cu</sub>: 50 kA (400/415 V AC) I<sub>cs</sub>: 50 kA

Description	I <sub>n</sub> (A)	Cat. ref. 3P	4P
adjustable thermal: 0.63 to 1 x I <sub>n</sub>	250	<b>HND250U</b>	<b>HND251U</b>
adjustable magnetic: 6 to 12 x I <sub>n</sub>	400	<b>HND400U</b>	<b>HND401U</b>



HND631H

### MCCBs h630 50kA LSI

Breaking capacity I<sub>cu</sub>: 50kA (400/415 V AC) I<sub>cs</sub>: 50kA

Description	I <sub>n</sub> (A)	Cat. ref. 3P	4P
adjustable thermal: I <sub>r</sub> = 0.4 to 1 x I <sub>n</sub>	400	<b>HND400H</b>	<b>HND401H</b>
adjustable magnetic: 2.5 to 10 x I <sub>r</sub> (250-400A) 2.5 to 8 x I <sub>r</sub> (630A) time delay: 0.1 - 0.2 s	630	<b>HND630H</b>	<b>HND631H</b>



HED401H

### MCCBs h630 70kA LSI

Breaking capacity I<sub>cu</sub>: 70 kA (400/415 V AC) I<sub>cs</sub>: 50 kA

Description	I <sub>n</sub> (A)	Cat. ref. 3P	4P
adjustable thermal: I <sub>r</sub> = 0.4 to 1 x I <sub>n</sub>	400	<b>HED400H</b>	<b>HED401H</b>
adjustable magnetic: 2.5 to 10 x I <sub>r</sub> (250-400A) 2.5 to 8 x I <sub>r</sub> (630A) time delay: 0.1 - 0.2 s	630	<b>HED630H</b>	<b>HED631H</b>

### Trip-free switches

suitable for AC 22A / AC 23A  
U<sub>e</sub>: 415 V AC I<sub>cw</sub> (0.3s) = 5kA

Description	I <sub>n</sub> (A)	Cat. ref. 3P	4P
trip-free switches	400	<b>HCD400H</b>	<b>HCD401H</b>
	630	<b>HCD630H</b>	<b>HCD631H</b>

**Characteristics**

- Electronic trip unit LSI:
  - long delay (thermal equivalent) adjustable:  $I_r = 0.4$  to  $1 \times I_n$
  - short delay (magnetic equivalent) adjustable:  $2.5$  to  $10 \times I_r$  (630-800A) and  $2.5$  to  $8 \times I_r$  (1000A)
  - time delay:  $0.1-0.2$  s
- 3P & 4P (adjustable neutral 0 - 50% - 100%)

- Mechanical test button, lockable settings
- Connection capacity : Directly on copper cable terminal, with end lug max. width: 50 mm

**Complies to the standard IEC 60 947-2**

**Trip-free switches :**

- Allows tripping at distance using a voltmeterical trip unit (optional)
- AC 22/23A
- Complies to the standard IEC 60 947-3



HNE970H

**MCCBs h1000 50kA LSI**

Breaking capacity  $I_{cu}$ : 50 kA (400/415 V AC)  $I_{cs}$ : 50 kA

Description	$I_n$ (A)	Cat. ref. 3P	4P
adjustable thermal $I_r = 0.4$ to $1 \times I_n$	800	<b>HNE800H</b>	<b>HNE801H</b>
adjustable magnetic $2.5$ to $10 \times I_r$ (630 - 800A) $2.5$ to $8 \times I_r$ (1000A) time delay: $0.1-0.2$ s	1000	<b>HNE970H</b>	<b>HNE971H</b>

neutral setting from 0-50 to 100%

**MCCBs h1000 70kA LSI**

Breaking capacity  $I_{cu}$ : 70 kA (400/415 V AC)  $I_{cs}$ : 50 kA

Description	$I_n$ (A)	Cat. ref. 3P	4P
adjustable thermal $I_r = 0,4$ to $1 \times I_n$	800	<b>HEE800H</b>	<b>HEE801H</b>
adjustable magnetic $2,5$ to $10 \times I_r$ (800A) $2,5$ to $8 \times I_r$ (1000A) time delay: $0,1-0,2$ s	1000	<b>HEE970H</b>	<b>HEE971H</b>

neutral setting from 0-50 to 100%

**MCCBs h1000 70kA LSI plug in**

Breaking capacity  $I_{cu}$ : 70 kA (400/415 V AC)  $I_{cs}$ : 50 kA

Description	$I_n$ (A)	Cat. ref. 3P	4P
MCCBs h1000 70kA LSI plug in	630	<b>HEE630G</b>	<b>HEE631G</b>
MCCBs h1000 70kA LSI plug in	800	<b>HEE800G</b>	<b>HEE801G</b>
base plate for h1000 MCCBs plug in		<b>HYE200H</b>	<b>HYE201H</b>

**Trip-free switches**

suitable for AC 22A / AC 23A  
 $U_e$ : 415V AC  
 $I_{cw}$  (0,3 s) = 10 kA

Description	$I_n$ (A)	Cat. ref. 3P	4P
trip-free switches	800	<b>HCE800U</b>	<b>HCE801U</b>
trip-free switches	1000	<b>HCE970H</b>	<b>HCE971H</b>



### Characteristics

- Electronic trip unit LSI
  - long delay (thermal equivalent) adjustable:
    - $I_r = 0.4$  to  $1 \times I_n$
  - short delay (magnetic equivalent) adjustable:
    - $2.5$  to  $10 \times I_r$
  - time delay:  $0.1$ - $0.2$  s
- 3P & 4P (adjustable neutral 0 - 50% - 100%)
- Mechanical test button, lockable settings.

- Connection capacity : Directly on copper cable terminal, with end lug max. width: 60 mm

### Complies to the standard IEC 60 947-2

### Trip-free switches :

- Allows tripping at distance using a voltmeterical trip unit (optional)
- AC 22/23A
- Complies to the standard IEC 60 947-3



HNF990H

### MCCBs h1600 50kA LSI

Breaking capacity  $I_{cu}$ : 50 kA (400/415 V AC)  $I_{cs}$ : 50 kA

Description	$I_n$ (A)	Cat. ref. 3P	4P
adjustable thermal $I_r = 0.4$ to $1 \times I_n$	1250	<b>HNF980H</b>	<b>HNF981H</b>
adjustable magnetic $2.5$ to $10 \times I_r$ time delay: $0.1$ - $0.2$ s	1600	<b>HNF990H</b>	<b>HNF991H</b>

neutral setting 0, 50, 100%

### MCCBs h1600 70kA LSI

Breaking capacity  $I_{cu}$ : 70 kA (400/415 V AC)  $I_{cs}$ : 50 kA

Description	$I_n$ (A)	Cat. ref. 3P	4P
adjustable thermal $I_r = 0.4$ to $1 \times I_n$	1250	<b>HEF980H</b>	<b>HEF981H</b>
adjustable magnetic $2.5$ to $10 \times I_r$ time delay: $0.1$ - $0.2$ s	1600	<b>HEF990H</b>	<b>HEF991H</b>

neutral setting from 0, 50, 100%

### Trip-free switches

suitable for AC 22A / AC 23A  
 $I_{cw}$  (0.3 s) = 20 kA  
 $U_e$ : 415 V AC

Description	$I_n$ (A)	Cat. ref. 3P	4P
trip-free switches	1250	<b>HCF980U</b>	<b>HCF981U</b>
trip-free switches	1600	<b>HCF990U</b>	<b>HCF991U</b>



HXA004H



HXA014H



HXA021H



HXA031H



HXB042H



HYB012H

Product Description	In A / Ue V	Pole	x160	x250
Shunt Trip Release SH	24V DC	3P/4P	HXA001H	HXA001H
	48V DC		HXA002H	HXA002H
	100-120V AC		HXA003H	HXA003H
	200-240V AC		HXA004H	HXA004H
	380-450V AC		HXA005H	HXA005H
Undervoltage Release UVR	24V DC	3P/4P	HXA011H	HXA011H
	100-120V AC		HXA013H	HXA013H
	200-240V AC		HXA014H	HXA014H
	380-450V AC		HXA015H	HXA015H
Delayed Undervoltage Release DUVR	24V DC	3P/4P	HXA051H	HXA051H
	100-120 V AC		HXA053H	HXA053H
	220-240V AC		HXA054H	HXA054H
	380-450V AC		HXA055H	HXA055H
Auxiliary contact AX	1NO+1NC 250V AC/3A 125V DC/0.4A	3P/4P	HXA021H	HXA021H
Alarm contact AL	1NO+1NC 250V AC/3A 125V DC/0.4A	3P/4P	HXA024H	HXA024H
Auxiliary contact - Low level	1NO+1NC 125V AC/0.1A 30V DC/0.1A	3P/4P	HXA025H	HXA025H
Alarm contact - Low level	1NO+1NC 125V AC/0.1A 30V DC/0.1A	3P/4P	HXA026H	HXA026H
Rotary handle, direct		3P/4P	HXA030H	HXB030H
Rotary handle, on door		3P/4P	HXA031H	HXB031H
Padlock removable			HXA039H	HXA039H
Padlock permanent			integrated	integrated
Motor operator	24V DC	3P/4P	/	HXB040H
	230 - 240VAC	3P/4P	/	HXB042H
Interlocking kit wire type (full kit for 2 MCCBs)			/	HXB065H
Interlock front cover unit			/	HXB066H
Interlocking mechanical cable	1 M		/	HXB070H
	1.5 M		/	HXB071H
Electrical interlock between motors			/	HXB068H
Collar terminals		3P	integrated	HYB001H
		4P	integrated	HYB002H
Extended connections - straight (set of 4 pieces)		3P/4P	HYA013H	HYB010H
		3P	HYA014H	HYB011H
Extended connections - spreader		4P	HYA015H	HYB012H
		3P	/	HYB031H
Rear connection		4P	/	HYB032H
		3P/4P	HYA019H	HYB019H
Terminal cover for straight connections		3P	HYA021H	HYB021H
		4P	HYA022H	HYB022H
Terminal cover for spreader connections		3P	HYA023H	HYB023H
		4P	HYA024H	HYB024H
Terminal cover short for rear connection		3P	HYA025H	HYB025H
		4P	HYA026H	HYB026H
Terminal cover for collar terminal		3P	HYA027H	HYB027H
		4P	HYA028H	HYB028H
Din Rail adaptor		3P/4P	HYA033H	HYB033H
Connecting kit (0.75 mm <sup>2</sup> , set of 3 x 2 wires, length: 1.30m)		3P/4P	HYA035H	HYA035H
Din Rail raiser		3P/4P	HYA036H	HYA036H



HXC004H



HXC014H



HXA021H



HXD031H



HXD042H



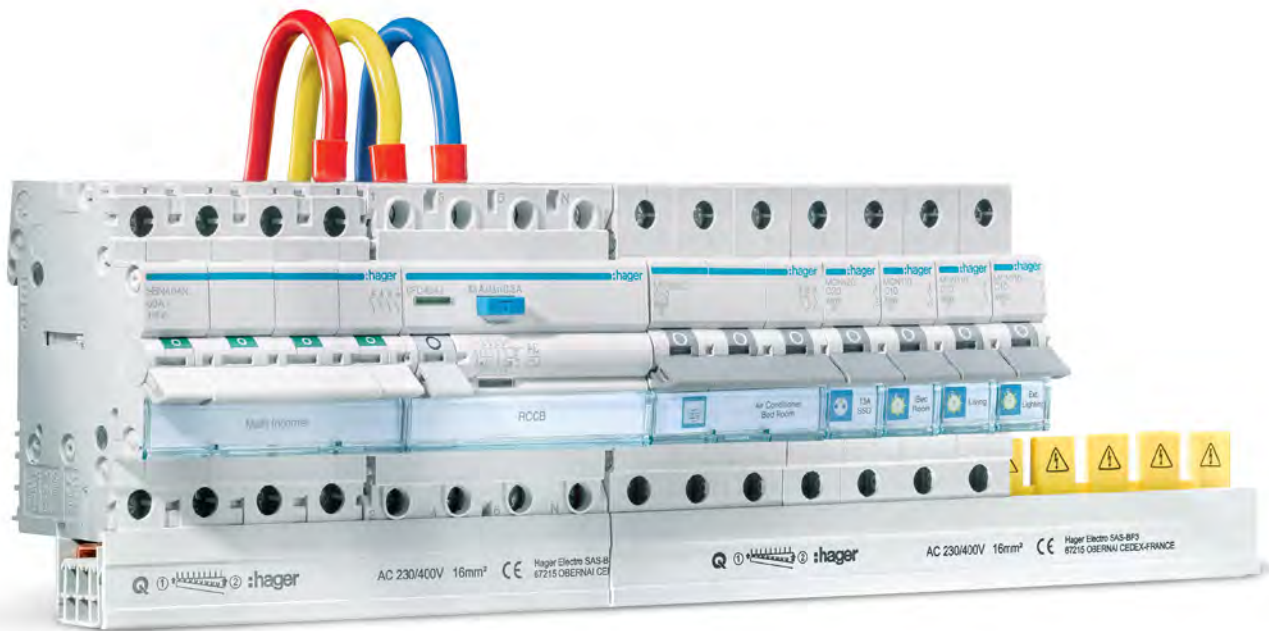
HXD039H

Product Description	In A / Ue V	Pole	h400	h630	h1000	h1600
Shunt Trip Release SH	24V DC	3P/4P	HXC001H	HXC001H	HXC001H	HXF001H
	48V DC		HXC002H	HXC002H	HXC002H	HXF002H
	100-120V AC		HXC003H	HXC003H	HXC003H	HXF003H
	200-240V AC		HXC004H	HXC004H	HXC004H	HXF004H
	380-450V AC		HXC005H	HXC005H	HXC005H	HXF005H
Undervoltage Release UVR	24V DC	3P/4P	HXC011H	HXC011H	HXE011H	HXE011H
	100-120V AC		HXC013H	HXC013H	HXE013H	HXE013H
	200-240V AC		HXC014H	HXC014H	HXE014H	HXE014H
	380-450V AC		HXC015H	HXC015H	HXE015H	HXE015H
Delayed Undervoltage Release DUVR	24V DC	3P/4P	HXD051H	HXD051H	HXE051H	HXE051H
	100-120V AC		HXD053H	HXD053H	HXE053H	HXE053H
	220-240V AC		HXD054H	HXD054H	HXE054H	HXE054H
	380-450V AC		HXD055H	HXD055H	HXE055H	HXE055H
Auxiliary contact AX	1NO+1NC 250V AC/3A 125V DC/0.4A	3P/4P	HXC021H	HXC021H	HXC021H	HXC021H
Alarm contact AL	1NO+1NC 250V AC/3A 125V DC/0.4A	3P/4P	HXC024H	HXC024H	HXC024H	HXC024H
Auxiliary contact - Low level	1NO+1NC 125V AC/0.1A 30V DC/0.1A	3P/4P	HXC025H	HXC025H	HXC025H	HXC025H
Alarm contact - Low level	1NO+1NC 125V AC/0.1A 30V DC/0.1A	3P/4P	HXC026H	HXC026H	HXC026H	HXC026H
Rotary handle, direct		3P/4P	HXD030H	HXD030H	HXE030H	HXF030H
Rotary handle, on door		3P/4P	HXD031H	HXD031H	HXE031H	HXF031H
Padlock removable			HXD039H	HXD039H	HXD039H	HXF039H
Padlock permanent			/	/	/	/
Motor operator	24V DC	3P/4P	HXD040H	HXD040H	HXE040H	HXF040H
	230 - 240VAC	3P/4P	HXD042H	HXD042H	HXE042H	HXF042H
Interlocking kit wire type (full kit for 2 MCCBs)			HXD065H	HXD065H	HXE065H	/
Interlock front cover unit			HXD066H	HXD066H	HXE066H	/
Interlocking mechanical cable	1 M		HXB070H	HXB070H	HXB070H	/
	1.5 M		HXB071H	HXB071H	HXB071H	/
Electrical interlock between motors			HXD068H	HXD068H	HXD068H	/
Collar terminals		3P	HYD007H	HYD007H	HYE007H	/
		4P	HYD008H	HYF008H	HYE008H	/
Extended connections - straight (set of 4 pieces)		3P/4P	HYD010H	HYD013H	included	included
		3P	HYD011H	HYD014H	/	/
Extended connections - spreader		4P	HYD012H	HYD015H	/	/
		3P	HYD031H	HYD033H	HYE031H / 33H	/
Rear connection		4P	HYD032H	HYD034H	HYE032H / 34H	/
		3P/4P	HYD019H	HYD019H	HYD019H	HYD019H
Terminal cover for straight connections		3P	HYD021H	HYD021H	HYE021H	/
		4P	HYD022H	HYD022H	HYE022H	/
Terminal cover for spreader connections		3P	HYD023H	HYD023H	/	/
		4P	HYD024H	HYD024H	/	/
Terminal cover short for rear connection / plug-in		3P	HYD025H	HYD025H	HYE025H	/
		4P	HYD026H	HYD026H	HYE026H	/
Terminal cover for collar terminal		3P	HYD027H	HYD027H	/	/
		4P	HYD028H	HYD028H	/	/
Din Rail adaptor		3P/4P	/	/	/	/
Connecting kit (0.75 mm <sup>2</sup> , set of 3 x 2 wires, length: 1.30m)		3P/4P	HYA035H	HYA035H	HYA035H	HYA035H

Easier, safer, faster

# Convenient and flexible solutions

With **onekonekt** modular protection devices, it's never been easier or safer to cable and commission electrical installation.



## Associated busbars



Single-pole busbar



Double-pole busbar



Three-pole busbar



Four-pole busbar



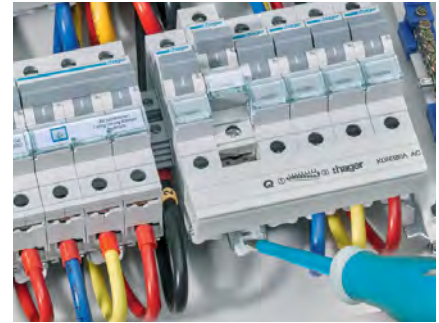
## 01 Easy circuit identification

Sections and circuits can be labelled directly on the device allowing you to quickly identify them even when the cover plate has been removed. To customise and print off your own labels, download our semiology labelling tool at [www.hager.com/middle-east](http://www.hager.com/middle-east)



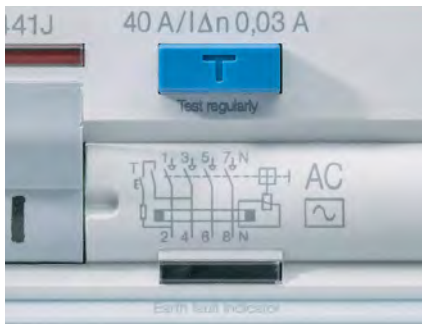
## 02 Safer connections

Thanks to the plastic shroud which provides IP2X finger protection on the terminals, you can safely remove cables without any risk of touching live parts. Also, by ensuring that the cable is well fitted in the terminal cage, any risk of loose connection is avoided.



## 03 Faster maintenance

Thanks to our multi-position smart clip, removing a product from the busbar is fast and easy and there's no need to disconnect any other devices.



## 04 Visible RCCB trip indication

With onekonekt's front-face trip indicator, you'll immediately know when a current leakage has been detected in the circuit.



## 05 Optimal flexibility

All devices feature bi-connect terminals, allowing you to either connect cables in the cage or busbars in the slot thereby ensuring full connection capacity.

### Characteristics

Protection and control of circuits against overloads and short-circuits in electrical installations. Allows to isolate circuits.

### Complies to the standard IEC 60898-1

### Technical data

- breaking capacity: 3000A (as per IEC 60898-1)
- voltage: 230/400V AC
- current: 6A to 40A
- frequency: 50/60Hz
- tripping curve:
  - B curve: 3 to 5 I<sub>n</sub>
  - C curve: 5 to 10 I<sub>n</sub>

### Technical features

- bi-connect (cable & busbar)
- supply feed either top or bottom
- will not accept auxiliaries
- poles: 1P, 2P, 3P, 4P (protected poles)
- climate sealed: T2
- trip free mechanism

### Connection capacity

- flexible: up to 16 mm<sup>2</sup>
- rigid: up to 25 mm<sup>2</sup>



MW110



MW216



MW332



MW432

In	Width in module 17.5 mm	Pack qty	Cat. ref. B curve	C curve
<b>Single pole miniature circuit breakers 3kA</b>				
6 A	1	12	<b>MV106</b>	<b>MW106</b>
10 A	1	12	<b>MV110</b>	<b>MW110</b>
16 A	1	12	<b>MV116</b>	<b>MW116</b>
20 A	1	12	<b>MV120</b>	<b>MW120</b>
25 A	1	12	<b>MV125</b>	<b>MW125</b>
32 A	1	12	<b>MV132</b>	<b>MW132</b>
40 A	1	12	<b>MV140</b>	<b>MW140</b>
<b>Double pole miniature circuit breakers 3kA</b>				
6 A	2	6	<b>MV206</b>	<b>MW206</b>
10 A	2	6	<b>MV210</b>	<b>MW210</b>
16 A	2	6	<b>MV216</b>	<b>MW216</b>
20 A	2	6	<b>MV220</b>	<b>MW220</b>
25 A	2	6	<b>MV225</b>	<b>MW225</b>
32 A	2	6	<b>MV232</b>	<b>MW232</b>
40 A	2	6	<b>MV240</b>	<b>MW240</b>
<b>Three pole miniature circuit breakers 3kA</b>				
6 A	3	4	<b>MV306</b>	<b>MW306</b>
10 A	3	4	<b>MV310</b>	<b>MW310</b>
16 A	3	4	<b>MV316</b>	<b>MW316</b>
20 A	3	4	<b>MV320</b>	<b>MW320</b>
25 A	3	4	<b>MV325</b>	<b>MW325</b>
32 A	3	4	<b>MV332</b>	<b>MW332</b>
40 A	3	4	<b>MV340</b>	<b>MW340</b>
<b>Four pole miniature circuit breakers 3kA</b>				
6 A	4	3	<b>MV406</b>	<b>MW406</b>
10 A	4	3	<b>MV410</b>	<b>MW410</b>
16 A	4	3	<b>MV416</b>	<b>MW416</b>
20 A	4	3	<b>MV420</b>	<b>MW420</b>
25 A	4	3	<b>MV425</b>	<b>MW425</b>
32 A	4	3	<b>MV432</b>	<b>MW432</b>
40 A	4	3	<b>MV440</b>	<b>MW440</b>

### Range : Onekonekt

#### Characteristics

Protection and control of circuits against overloads and short-circuits in electrical installations. Allows to isolate circuits.

#### Complies to the standard IEC 60898-1

#### Technical data

- comply to the standard IEC 60898-1
- breaking capacity: 6000A (as per IEC 60898-1)
- voltage: 230/400V AC
- current: 0.5A to 63A
- frequency: 50/60Hz
- tripping curve:
  - C curve: 5 to 10 In

#### Technical features

- label holder
- IP2X terminals
- bi-connect (cable & busbar)
- supply feed either top or bottom
- will accept auxiliaries
- poles: 1P, 2P, 3P, 4P (protected poles)
- climate sealed: T2
- trip free mechanism

#### Connection capacity

- flexible: up to 16 mm<sup>2</sup>
- rigid: up to 25 mm<sup>2</sup>

### onekonekt Miniature circuit breakers 6 kA type C

In	Width in module 17.5 mm	Pack qty	Cat. ref. C curve
<b>Single pole miniature circuit breakers 6 kA</b>			
0.5 A	1	12	<b>MCN100</b>
1 A	1	12	<b>MCN101</b>
2 A	1	12	<b>MCN102</b>
3 A	1	12	<b>MCN103</b>
4 A	1	12	<b>MCN104</b>
6 A	1	12	<b>MCN106</b>
10 A	1	12	<b>MCN110</b>
16 A	1	12	<b>MCN116</b>
20 A	1	12	<b>MCN120</b>
25 A	1	12	<b>MCN125</b>
32 A	1	12	<b>MCN132</b>
40 A	1	12	<b>MCN140</b>
50 A	1	12	<b>MCN150</b>
63 A	1	12	<b>MCN163</b>
<b>Double pole miniature circuit breakers 6 kA</b>			
0.5 A	2	6	<b>MCN200</b>
1 A	2	6	<b>MCN201</b>
2 A	2	6	<b>MCN202</b>
3 A	2	6	<b>MCN203</b>
4 A	2	6	<b>MCN204</b>
6 A	2	6	<b>MCN206</b>
10 A	2	6	<b>MCN210</b>
16 A	2	6	<b>MCN216</b>
20 A	2	6	<b>MCN220</b>
25 A	2	6	<b>MCN225</b>
32 A	2	6	<b>MCN232</b>
40 A	2	6	<b>MCN240</b>
50 A	2	6	<b>MCN250</b>
63 A	2	6	<b>MCN263</b>



MCN110



MCN220



MCN332



MCN420

In	Width in module 17.5 mm	Pack qty	Cat. ref. C curve
<b>Three pole miniature circuit breakers 6 kA</b>			
0.5 A	3	4	<b>MCN300</b>
1 A	3	4	<b>MCN301</b>
2 A	3	4	<b>MCN302</b>
3 A	3	4	<b>MCN303</b>
4 A	3	4	<b>MCN304</b>
6 A	3	4	<b>MCN306</b>
10 A	3	4	<b>MCN310</b>
16 A	3	4	<b>MCN316</b>
20 A	3	4	<b>MCN320</b>
25 A	3	4	<b>MCN325</b>
32 A	3	4	<b>MCN332</b>
40 A	3	4	<b>MCN340</b>
50 A	3	4	<b>MCN350</b>
63 A	3	4	<b>MCN363</b>
<b>Four pole miniature circuit breakers 6 kA</b>			
0.5 A	4	3	<b>MCN400</b>
1 A	4	3	<b>MCN401</b>
2 A	4	3	<b>MCN402</b>
3 A	4	3	<b>MCN403</b>
4 A	4	3	<b>MCN404</b>
6 A	4	3	<b>MCN406</b>
10 A	4	3	<b>MCN410</b>
16 A	4	3	<b>MCN416</b>
20 A	4	3	<b>MCN420</b>
25 A	4	3	<b>MCN425</b>
32 A	4	3	<b>MCN432</b>
40 A	4	3	<b>MCN440</b>
50 A	4	3	<b>MCN450</b>
63 A	4	3	<b>MCN463</b>



### Characteristics

Protection and control of circuits against overloads and short-circuits in electrical installations. Allows to isolate circuits.

### Complies to the standard IEC 60898-1

### Technical data

- breaking capacity: 10000A (as per IEC 60898-1)
- voltage: 230/400V AC
- current: 6A to 63A
- frequency: 50/60Hz
- tripping curve:
  - B curve: 3 to 5 I<sub>n</sub>
  - C curve: 5 to 10 I<sub>n</sub>

### Technical features

- bi-connect (cable & busbar)
- supply feed either top or bottom
- will accept auxiliaries
- poles: 1P, 2P, 3P, 4P (protected poles)
- climate sealed: T2
- trip free mechanism

### Connection capacity

- flexible: up to 16 mm<sup>2</sup>
- rigid: up to 25 mm<sup>2</sup>



NC110A



NC236A



NC363A



NC432A

In	Width in module 17.5 mm	Pack qty	Cat. ref. B curve	Cat. ref. C curve
<b>Single pole miniature circuit breakers 10 kA</b>				
6 A	1	12	<b>NB106A</b>	<b>NC106A</b>
10 A	1	12	<b>NB110A</b>	<b>NC110A</b>
16 A	1	12	<b>NB116A</b>	<b>NC116A</b>
20 A	1	12	<b>NB120A</b>	<b>NC120A</b>
25 A	1	12	<b>NB125A</b>	<b>NC125A</b>
32 A	1	12	<b>NB132A</b>	<b>NC132A</b>
40 A	1	12	<b>NB140A</b>	<b>NC140A</b>
50 A	1	12	<b>NB150A</b>	<b>NC150A</b>
63 A	1	12	<b>NB163A</b>	<b>NC163A</b>
<b>Double pole miniature circuit breakers 10 kA</b>				
6 A	2	6	<b>NB206A</b>	<b>NC206A</b>
10 A	2	6	<b>NB210A</b>	<b>NC210A</b>
16 A	2	6	<b>NB216A</b>	<b>NC216A</b>
20 A	2	6	<b>NB220A</b>	<b>NC220A</b>
25 A	2	6	<b>NB225A</b>	<b>NC225A</b>
32 A	2	6	<b>NB232A</b>	<b>NC232A</b>
40 A	2	6	<b>NB240A</b>	<b>NC240A</b>
50 A	2	6	<b>NB250A</b>	<b>NC250A</b>
63 A	2	6	<b>NB263A</b>	<b>NC263A</b>
<b>Three pole miniature circuit breakers 10 kA</b>				
6 A	3	4	<b>NB306A</b>	<b>NC306A</b>
10 A	3	4	<b>NB310A</b>	<b>NC310A</b>
16 A	3	4	<b>NB316A</b>	<b>NC316A</b>
20 A	3	4	<b>NB320A</b>	<b>NC320A</b>
25 A	3	4	<b>NB325A</b>	<b>NC325A</b>
32 A	3	4	<b>NB332A</b>	<b>NC332A</b>
40 A	3	4	<b>NB340A</b>	<b>NC340A</b>
50 A	3	4	<b>NB350A</b>	<b>NC350A</b>
63 A	3	4	<b>NB363A</b>	<b>NC363A</b>
<b>Four pole miniature circuit breakers 10 kA</b>				
6 A	4	3	<b>NB406A</b>	<b>NC406A</b>
10 A	4	3	<b>NB410A</b>	<b>NC410A</b>
16 A	4	3	<b>NB416A</b>	<b>NC416A</b>
20 A	4	3	<b>NB420A</b>	<b>NC420A</b>
25 A	4	3	<b>NB425A</b>	<b>NC425A</b>
32 A	4	3	<b>NB432A</b>	<b>NC432A</b>
40 A	4	3	<b>NB440A</b>	<b>NC440A</b>
50 A	4	3	<b>NB450A</b>	<b>NC450A</b>
63 A	4	3	<b>NB463A</b>	<b>NC463A</b>

### Characteristics

Protection and control of circuits against overloads and short circuits in electrical installations. Allows to isolate circuits. They can be used for installation in commercial building and industrial premises.

- frequency: 50/60Hz
- tripping curve:
  - B curve: 3 to 5 I<sub>n</sub>,
  - C curve: 5 to 10 I<sub>n</sub>

**Complies to the standard IEC 60898-1, IEC 60947-2**

### Technical data

- breaking capacity
  - 10 kA (IEC 60 898-1)
  - 10 kA (IEC 60 947-2)
- voltage: 230/400V AC
- current: 80A to 125 A

### Technical features

- supply feed either top or bottom
- will accept auxiliaries
- poles: 1P, 2P, 3P, 4P (protected poles)
- climate sealed: T2
- trip free mechanism

### Connection capacity

- flexible: up to 50 mm<sup>2</sup>
- rigid: up to 70 mm<sup>2</sup>



HLF199S

In/A	Width in module 17.5 mm	Pack qty	Cat. ref. B curve	C curve
<b>Single pole miniature circuit breakers 10 kA</b>				
80	1.5	1	<b>HLE180S</b>	<b>HLF180S</b>
100	1.5	1	<b>HLE190S</b>	<b>HLF190S</b>
125	1.5	1	<b>HLE199S</b>	<b>HLF199S</b>



HLF299S

In/A	Width in module 17.5 mm	Pack qty	Cat. ref. B curve	C curve
<b>Double pole miniature circuit breakers 10 kA</b>				
80	3	1	<b>HLE280S</b>	<b>HLF280S</b>
100	3	1	<b>HLE290S</b>	<b>HLF290S</b>
125	3	1	<b>HLE299S</b>	<b>HLF299S</b>



HLF399S

In/A	Width in module 17.5 mm	Pack qty	Cat. ref. B curve	C curve
<b>Three pole miniature circuit breakers 10 kA</b>				
80	4.5	1	<b>HLE380S</b>	<b>HLF380S</b>
100	4.5	1	<b>HLE390S</b>	<b>HLF390S</b>
125	4.5	1	<b>HLE399S</b>	<b>HLF399S</b>



HLF499S

In/A	Width in module 17.5 mm	Pack qty	Cat. ref. B curve	C curve
<b>Four pole miniature circuit breakers 10 kA</b>				
80	6	1	<b>HLE480S</b>	<b>HLF480S</b>
100	6	1	<b>HLE490S</b>	<b>HLF490S</b>
125	6	1	<b>HLE499S</b>	<b>HLF499S</b>

# Modular protection devices

## Residual current breakers with overcurrent protection (RCBO)

### Characteristics

Compact protection devices which combine the overcurrent functions of an MCB with the earth fault functions of an RCCB in a single unit. These devices are single pole & solid neutral.

### Complies to the standard IEC 61009-1

### Technical data

- tripping curve:  
C curve: 5 to 10 In
- sensitivity:  
high sensitivity: 10mA, 30mA  
medium sensitivity: 100mA, 300mA
- voltage: 230V AC
- current: 6A to 40A
- frequency: 50Hz / 60Hz

- type: AC type (Ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly rising)

### Technical features

- bi-connect (cable & busbar)
- flying neutral lead length: 700mm
- will not accept auxiliaries
- poles: SP & passing N
- climate sealed: T2
- trip free mechanism
- fixed instantaneous tripping

### Connection capacity

- flexible: up to 16 mm<sup>2</sup>
- rigid: up to 25 mm<sup>2</sup>



ADC232Z



ADC290Y

In / A	Width in module 17.5 mm	Pack qty	Cat. ref. C curve	Cat. ref. C curve
<b>RCBOs AC type - 30 mA</b>				
			<b>6 kA</b>	<b>10 kA</b>
6	1	1	ADC206Z	ADC284Y
10	1	1	ADC210Z	ADC285Y
16	1	1	ADC216Z	ADC287Y
20	1	1	ADC220Z	ADC288Y
25	1	1	ADC225Z	ADC289Y
32	1	1	ADC232Z	ADC290Y
40	1	1	ADC240Z	ADC291Y
<b>RCBOs AC type - 100 mA</b>				
6	1	1	AEC206Z	AEC207Y
10	1	1	AEC210Z	AEC211Y
16	1	1	AEC216Z	AEC217Y
20	1	1	AEC220Z	AEC221Y
25	1	1	AEC225Z	AEC226Y
32	1	1	AEC232Z	AEC233Y
40	1	1	AEC240Z	AEC241Y
<b>RCBOs AC type - 300 mA</b>				
10	1	1	AFC210Z	-
16	1	1	AFC216Z	-
20	1	1	AFC220Z	-
25	1	1	AFC225Z	-
32	1	1	AFC232Z	-
40	1	1	AFC240Z	-
<b>RCBOs AC type - 10 mA</b>				
6	1	1	-	ACC206Y
10	1	1	-	ACC210Y
16	1	1	-	ACC216Y
20	1	1	-	ACC220Y
25	1	1	-	ACC225Y
32	1	1	-	ACC232Y

### Characteristics

Protection and control of circuits against earth leakage currents, between line and earth, and/or neutral and earth. Protects against electrical shocks.

### Complies to the standard IEC 61008-1

### Technical data

- sensitivity: 10mA, 30mA, 100mA, 300mA, 500mA
- voltage: 240V (2P) and 240/415V (4P)
- current rating: 16A to 125A
- frequency: 50Hz
- type: AC type (Ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly rising)

### Technical features

- label holder (up to 63A)
- IP2X terminals (up to 63A)
- bi-connect (up to 63A)
- earth fault indication (yellow = tripped)
- ON/OFF indication
- will accept auxiliaries
- climate sealed: T2
- trip free mechanism
- fixed instantaneous tripping

### Connection capacity

- flexible: up to 16 mm<sup>2</sup>
- rigid: up to 25 mm<sup>2</sup>

### Residual Current Circuit Breakers (RCCB) onekonekt



CEC241J



CFC464J

In	Pack qty	Cat. ref. 2P	Cat. ref. 4P
<b>RCCBs AC type - 10mA</b>			
16 A	1	<b>CDC217J</b>	-
<b>RCCBs AC type - 30mA</b>			
25 A	1	<b>CDC226J</b>	<b>CDC426J</b>
40 A	1	<b>CDC241J</b>	<b>CDC441J</b>
63 A	1	<b>CDC264J</b>	<b>CDC464J</b>
80 A	1	<b>CD281Z</b>	<b>CD480Z</b>
100 A	1	<b>CD285Z</b>	<b>CD485Z</b>
<b>RCCBs AC type - 100mA</b>			
25 A	1	<b>CEC226J</b>	<b>CEC426J</b>
40 A	1	<b>CEC241J</b>	<b>CEC441J</b>
63 A	1	<b>CEC264J</b>	<b>CEC464J</b>
80 A	1	<b>CE281Z</b>	<b>CE481Z</b>
100 A	1	<b>CE285Z</b>	<b>CE485Z</b>
<b>RCCBs AC type - 300mA</b>			
25 A	1	<b>CFC226J</b>	<b>CFC426J</b>
40 A	1	<b>CFC241J</b>	<b>CFC441J</b>
63 A	1	<b>CFC264J</b>	<b>CFC464J</b>
80 A	1	<b>CF281Z</b>	<b>CF481Z</b>
100 A	1	<b>CF285Z</b>	<b>CF485Z</b>



CDC690



CFC690

### Residual Current Circuit Breakers (RCCB)-125A

In	Pack qty	Cat. ref. 2P	Cat. ref. 4P
<b>RCCB AC type - 30mA</b>			
125 A	1	-	<b>CDC690</b>
<b>RCCB A type - 100mA</b>			
125 A	1	-	<b>CEA690</b>
<b>RCCB AC type - 300mA</b>			
125 A	1	-	<b>CFC690</b>
<b>RCCB AC type - 500mA</b>			
125 A	1	-	<b>CGC690</b>

### Characteristics

Protection and control of circuits against overloads and short circuits.

Comply with IEC 60 269-2 and IEC 60 269-2-1

### Technical data

- sizes: L31, L38, L51
- poles: 1P, 2P, 3P, 4P
- voltage rating: 500 V AC, 690V AC
- current rating: 25 to 125A
- frequency: 50/60Hz
- climate sealed: T2
- will accept accessories

### Connection capacity

- L31 (8.5x31.5):
  - rigid conductors: 25mm<sup>2</sup>
  - flexible conductors: 16mm<sup>2</sup>
- L38 (10x38):
  - rigid conductors: 25mm<sup>2</sup>
  - flexible conductors: 16mm<sup>2</sup>
- L51 (14x51):
  - rigid conductors: 35mm<sup>2</sup>
  - flexible conductors: 25mm<sup>2</sup>



LSN401

### L31 fuse carriers 500V - 25A

- compatible with accessories

Description	Width in module 17.5 mm	Pack qty.	Cat. ref.
single pole	1	12	<b>LSN401</b>
two pole	2	6	<b>LSN402</b>
three pole	3	4	<b>LSN403</b>
3 phases + neutral link	4	3	<b>LSN404</b>
1 phase + neutral link	2	6	<b>LSN412</b>
single pole with signal light	1	12	<b>LSN431</b>



LSN504

### L38 fuse carriers 690V - 32A

- compatible with accessories

Description	Width in module 17.5 mm	Pack qty.	Cat. ref.
single pole	1	12	<b>LSN501</b>
two pole	2	6	<b>LSN502</b>
three pole	3	4	<b>LSN503</b>
3 phases + neutral link	4	3	<b>LSN504</b>
1 neutral link	1	12	<b>LSN509</b>
1 phase + neutral link	2	6	<b>LSN512</b>
single pole with signal light	1	12	<b>LSN531</b>

### L51 fuse carriers 690V - 50A

Description	Width in module 17.5 mm	Pack qty.	Cat. ref.
<b>Fuse carriers compatible with accessories single pole</b>			
single pole	1.5	1	<b>LS601</b>
two pole	3	1	<b>LS602</b>
three pole	4.5	1	<b>LS603</b>
3 phases + neutral link	6	1	<b>LS604</b>
1 phase + neutral link	3	1	<b>LS612</b>
<b>Fuse carriers not compatible with accessories</b>			
single pole	1.5	1	<b>LR601</b>
two pole	3	1	<b>LR602</b>
three pole	4.5	1	<b>LR603</b>
3 phases + neutral link	3	1	<b>LR604</b>
1 phase + neutral link	3	1	<b>LR612</b>



LS601

**Characteristics**

Contactors are power devices necessary for the remote switching and control of power circuits like heating circuits, lighting, ventilation, etc. It is recommended to associate them with command and energy management devices (time switches, thermostats, delay timers, etc.)

**Complies with IEC 61095**

**Technical data**

- standard contactors range: 1, 2 and 3 module width
- power contacts rating: 230V AC or 400V AC, 50/60Hz
- without manual override control
- ratings: 25A, 40A, 63A
- utilisation categories: AC-7a / AC-1, AC-7b / AC-3







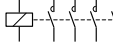
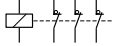
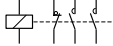
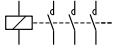
**Recommendations**

- the use of LZ060 (heat dissipation inserts) is strongly recommended every 2 contactors mounted in a row or between contactors and adjacent devices
- the use of the auxiliary contact ESC080 is not compatible with 1 module width low noise contactors

**Connection capacities**

- for 25A contactors:
  - 10mm<sup>2</sup> rigid conductor
  - 6mm<sup>2</sup> flexible conductor
- for 40A, 63A contactors:
  - 25mm<sup>2</sup> rigid conductor
  - 16mm<sup>2</sup> flexible conductor
- for coil connection:
  - 10mm<sup>2</sup> rigid conductor
  - 6mm<sup>2</sup> flexible conductor

**230V AC - 50 Hz control coil voltage**

Contact types	Symbol	Power contact rating	Width in module 17.5 mm	Pack qty	Cat. ref.
1NO		25A	1	12	<b>ESC125</b>
1NC		25A	1	12	<b>ESC126</b>
2NO		25A	1	12	<b>ESC225</b>
		40A	3	4	<b>ESC240</b>
		63A	3	4	<b>ESC263</b>
2NC		25A	1	12	<b>ESC226</b>
		40A	3	4	<b>ESC241</b>
		63A	3	4	<b>ESC264</b>
1NO + 1NC		25A	1	12	<b>ESC227</b>
3NO		25A	2	6	<b>ESC325</b>
		40A	3	4	<b>ESC340</b>
		63A	3	4	<b>ESC363</b>
4NO		25A	2	6	<b>ESC425</b>
		40A	3	4	<b>ESC440</b>
		63A	3	4	<b>ESC463</b>
4NC		25A	2	6	<b>ESC426</b>
		40A	3	4	<b>ESC441</b>
		63A	3	4	<b>ESC464</b>
2NO + 2NC		25A	2	6	<b>ESC427</b>
		40A	3	4	<b>ESC442</b>
		63A	3	4	<b>ESC465</b>
3NO + 1NC		25A	2	6	<b>ESC428</b>
		40A	3	4	<b>ESC443</b>
		63A	3	4	<b>ESC466</b>



ESC225



ESC425

### Characteristics

Permits the remote control of a lighting circuits from several points using push-buttons in private buildings, small industry buildings and administration buildings. Latching relays operate when impulsed by a signal voltage. The impulse can be provided via a push button or switch. The first pulse operates the relay and latches it into its set (opposite) state, the next operation of the push button returns the relay into its reset (original) state.

- nominal voltage of the power circuit: 12V, 24V, 48V and 230 V AC
- nominal voltage of the control circuit: 12V, 24V, 110V DC
- conventional thermal current: 16A AC1
- control and power circuits
- nominal frequency: 50/60Hz
- contact types: 1NO, 2NO, 1NC+1NO, 4NO, 2NO+2NC, 3NO+1NC
- 4 types of auxiliaries

**Complies with IEC 60 669-1 and IEC 60 669-2-2**

### Technical data

- nominal voltage of the power circuit:  $U_n = 250/400$  V AC

### Connection capacity:

- rigid 10 mm<sup>2</sup>
- flexible 6 mm<sup>2</sup>

### Latching relays



EPN510



EPN540



EPS410B



EPS450B

Contact types	Symbol	Coil V AC 50/60 Hz	Coil V DC	Power circuit AC1	Width in module 17.5 mm	Pack qty	Cat. ref.
1NO		230	110	16A-250V	1	12	<b>EPN510</b>
		48	24	16A-250V	1	1	<b>EPN501</b>
		24	12	16A-250V	1	1	<b>EPN513</b>
		12	-	16A-250V	1	1	<b>EPN511</b>
2NO		230	110	16A-250V	1	1	<b>EPN520</b>
		48	24	16A-250V	1	1	<b>EPN526</b>
		24	12	16A-250V	1	1	<b>EPN524</b>
		12	-	16A-250V	1	1	<b>EPN521</b>
1NC + 1NO		230	110	16A-250V	1	1	<b>EPN515</b>
		110	48	16A-250V	1	1	<b>EPN516</b>
		48	24	16A-250V	1	1	<b>EPN503</b>
		24	12	16A-250V	1	1	<b>EPN518</b>
4NO		230	110	16A-400V	2	1	<b>EPN540</b>
		48	24	16A-400V	2	1	<b>EPN548</b>
		24	12	16A-400V	2	1	<b>EPN541</b>
		230	110	16A-250V	2	1	<b>EPN525</b>
2NC + 2NO		24	12	16A-250V	2	1	<b>EPN528</b>
		230	110	16A-400V	2	1	<b>EPN546</b>
3NO + 1NC		230	110	16A-400V	2	1	<b>EPN546</b>

### Electronic latching relay

Contact types	Symbol	Coil V AC 50/60 Hz	Power circuit AC1	Width in module 17.5 mm	Cat. ref.
1NO		230	16A-250V	1	<b>EPS410B</b>

### Electronic latching relay with delay time

Contact types	Symbol	Coil V AC 50/60 Hz	Power circuit AC1	Width in module 17.5 mm	Cat. ref.
1NO		230	16A-250V	1	<b>EPS450B</b>

**Characteristics**

Modular switches are used as general switches in electrical low voltage distribution boards and for the isolation of loads during the interventions of maintenance.

**Complies with IEC 60947-3**

**Technical data**

- voltage: 240/415V
- frequency: 50/60Hz

**Technical features**

- label holder
- IP2X terminals

- bi-connect
- all switches have a green/red indication on the toggle giving positive contact position

**Connection capacity**

- Size 1: In 16A, 25A
  - 16 mm<sup>2</sup> rigid conductor
  - 10 mm<sup>2</sup> flexible conductor
- Size 2: In 32A
  - 25 mm<sup>2</sup> rigid conductor
  - 16 mm<sup>2</sup> flexible conductor
- Size 3: In 40A, 63A, 80A, 100A, 125A
  - 50 mm<sup>2</sup> rigid conductor
  - 35 mm<sup>2</sup> flexible conductor

**onekonekt modular switches**

Characteristics	Width in module 17.5 mm	Pack qty	Cat. ref.
<b>Single-pole</b>			
16A	1	12	<b>SBN116N</b>
25A	1	12	<b>SBN125N</b>
32A	1	12	<b>SBN133N</b>
40A	1	12	<b>SBN141N</b>
63A	1	12	<b>SBN164N</b>
80A	1	12	<b>SBN180N</b>
100A	1	12	<b>SBN190N</b>
125A	1	12	<b>SBN199N</b>
<b>Double-pole</b>			
16A	1	12	<b>SBN216N</b>
25A	1	12	<b>SBN225N</b>
32A	2	6	<b>SBN233N</b>
40A	2	6	<b>SBN241N</b>
63A	2	6	<b>SBN264N</b>
80A	2	6	<b>SBN280N</b>
100A	2	6	<b>SBN290N</b>
125A	2	6	<b>SBN299N</b>
<b>Three-pole</b>			
16A	2	6	<b>SBN316N</b>
25A	2	6	<b>SBN325N</b>
32A	3	4	<b>SBN333N</b>
40A	3	4	<b>SBN341N</b>
63A	3	4	<b>SBN364N</b>
80A	3	4	<b>SBN380N</b>
100A	3	4	<b>SBN390N</b>
125A	3	4	<b>SBN399N</b>
<b>Four-pole</b>			
16A	2	6	<b>SBN416N</b>
25A	2	6	<b>SBN425N</b>
32A	4	3	<b>SBN433N</b>
40A	4	3	<b>SBN441N</b>
63A	4	3	<b>SBN464N</b>
80A	4	3	<b>SBN480N</b>
100A	4	3	<b>SBN490N</b>
125A	4	3	<b>SBN499N</b>



SBN116N



SBN299N



SBN364N



SBN464N





# Design and comfort for life



Hager British Standard wiring accessories available in 3 ranges:



Muse



Inspire



Dream



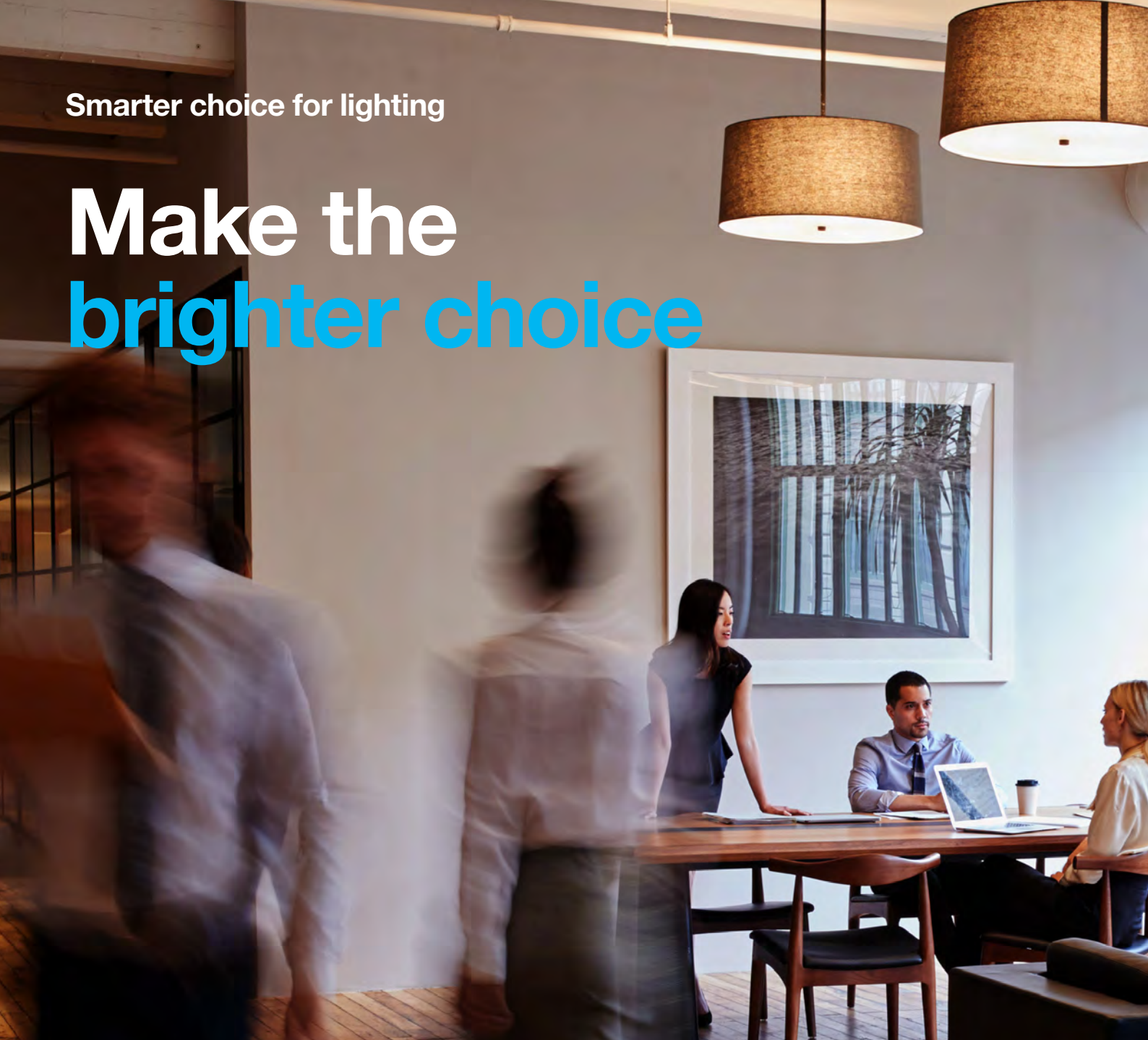
Colour options



For more info scan here:

Smarter choice for lighting

# Make the brighter choice



Lighting control plays an important role in modern homes & buildings. It is not only to produce ideal living and working conditions

but also to achieve the best possible energy balance. On-demand lighting solutions from hager helps users to reduce energy costs for lighting.



## Motion detectors

are best for spaces where people pass through, such as hallways and car parks.



## Presence detectors

are designed for areas such as offices and waiting rooms, where people sit still for long periods.



For more info scan here:

### Characteristics:

Our range of motion & presence detectors are the perfect solution for cost-effective lighting control and energy efficiency in buildings. These detectors switch On/Off lights according to human movement & ambient light levels. They provide a simple and effective solution for increasing comfort, safety, security and energy saving in commercial, residential & industrial buildings.

They are suitable for both indoor and outdoor environments making them ideal for diverse applications such as parking areas, lift lobbies, corridors, hotel rooms, conference rooms, offices, homes and public buildings. Matching with different detection applications and installation specifications, the detectors are available with a mounting set for wall, ceiling and corners.

	<p><b>Motion detectors IP55</b></p> <ul style="list-style-type: none"> <li>- 230V AC (50/60 Hz)</li> <li>- output: 10A AC1 relay</li> <li>- IP55</li> <li>- for indoor or outdoor use</li> <li>- IP55 reinforced waterproofing</li> <li>- 140/220/360° frontal detection zone</li> </ul>	<ul style="list-style-type: none"> <li>- can be mounted on walls, in corners or to ceilings utilizing the relevant mounting accessory</li> <li>- response brightness adjustable</li> <li>- delay time adjustable</li> <li>- adjustment achieved locally via potentiometers</li> <li>- Complies with EN 60669-1 &amp; EN 60669-2-1</li> </ul>
EE840	Description	Cat. ref.
	140° white	<b>EE820</b>
	200° white	<b>EE830</b>
	360° white	<b>EE840</b>
	<p><b>Motion + presence detectors IP21</b></p> <ul style="list-style-type: none"> <li>- 230V AC (50/60 Hz)</li> <li>- output: 10A AC1 relay</li> <li>- IP21</li> <li>- combination of presence and motion detector with enhanced detection sensitivity in the central presence-detection area</li> </ul>	<ul style="list-style-type: none"> <li>- response brightness adjustable</li> <li>- delay time adjustable</li> <li>- adjustment achieved locally via potentiometers</li> <li>- factory presets: Lux = 200, Time = 3 Minutes</li> <li>- Coverage 360°, Diameter 6m @ 2.5m (motion), enhanced detection area 4m Diameter (presence) @ 2.5m</li> <li>- Complies with EN 60669-1 &amp; EN 60669-2-1</li> </ul>
EE804A	Description	Cat. ref.
	360° surface mounting, white	<b>EE804A</b>
	360° flush mounting, white, 75mm Φ	<b>EE805A</b>
	<p><b>Motion detector for corridor IP54</b></p> <ul style="list-style-type: none"> <li>- 230V AC (50/60 Hz)</li> <li>- output: 10A AC1 relay</li> <li>- IP54</li> <li>- detection zone of 4m x 20m</li> </ul>	<ul style="list-style-type: none"> <li>- response brightness adjustable</li> <li>- delay time adjustable</li> <li>- adjustment achieved locally via potentiometers</li> <li>- complies with EN 60669-1 &amp; EN 60669-2-1</li> </ul>
EE880	Description	Cat. ref.
	360° surface mounting, white	<b>EE880</b>
	<p><b>HF motion detector (hyper frequency) IP54</b></p> <ul style="list-style-type: none"> <li>- 230V AC (50/60 Hz)</li> <li>- output: 10A AC1 relay</li> <li>- IP54</li> <li>- detection zone of 8m</li> <li>- detection area 360°</li> </ul>	<ul style="list-style-type: none"> <li>- response brightness adjustable</li> <li>- delay time adjustable</li> <li>- adjustment achieved locally via potentiometers</li> <li>- hyper frequency (HF) detection, independent of temperature detection</li> <li>- Complies with EN 60669-1, EN 60669-2-1, EN 301489-1 &amp; 3, EN 300440-1 &amp; 2</li> </ul>
EE883	Description	Cat. ref.
	surface mounting, white	<b>EE883</b>
	<p><b>Presence detector flush mounting</b></p> <ul style="list-style-type: none"> <li>- 230V AC</li> <li>- output: 16A AC1 relay</li> <li>- IP41</li> <li>- programmable for absence or presence</li> <li>- range 7m diameter for large</li> </ul>	<ul style="list-style-type: none"> <li>- movements, 5m diameter for small movements</li> <li>- lux level and ON delay setting via potentiometers or remote control</li> <li>- factory presets, lux = 400, time = 20 min, presence detection</li> <li>- complies with EN 60669-1 &amp; EN 60669-2-1</li> </ul>
EE815	Description	Cat. ref.
	360° white	<b>EE815</b>
	<p><b>Infra-red remote control</b></p> <ul style="list-style-type: none"> <li>- for EE81x</li> </ul>	<ul style="list-style-type: none"> <li>- for the installer (settings)</li> <li>- for the customer (lighting control)</li> </ul>
EE807	Description	Cat. ref.
EE808	for the installer (settings)	<b>EE807</b>
	for the customer (lighting control)	<b>EE808</b>

**Characteristics:**

Time lag switches are designed to save energy and ensure safety. For example: for building stair-case or cellar lighting, ventilation, pumping, etc... these devices provide control of lighting circuits with automatic switch-off after a pre-set time (e.g. for staircase, corridors lighting). Compact design with a 2 position switch permanent/timed lighting implementation facility

**Complies with EN 60 669**

**Technical data**

- supply voltage: 230V 50/60Hz
- cut-off power: 16A - 250V AC1
- consumption: 1VA
- time delay: 30 s to 10 min
- protection degree: IP20
- current limiting: 100mA EMN001
- connection capacity:
  - 6mm<sup>2</sup> flexible
  - 10mm<sup>2</sup> rigid



EMN001

**Standard stair case time lag switch**

- press shortly a push button to switch ON the light
- after an adjustable time "T", the light switch OFF automatically

Description	Width in modules	Pack qty.	Cat. ref.
standard stair case time lag switch	1	6	<b>EMN001</b>



EMN005

**Multifunction stair case time lag switch**

Description	Width in modules	Pack qty.	Cat. ref.
multifunction stair case time lag switch 4 functions: - basic mode - prewarning mode - double delay mode - double delay + prewarning mode	1	1	<b>EMN005</b>

**Analogue time switches**

**Characteristics:**

Time switches allows users to set programs for switching loads On and Off. These switches are ideal for both domestic and commercial applications and can be used to control various electrical devices such as lighting, household appliances, signboards, shop windows, and more. Not only do they provide convenience, but they also help save energy and improve overall comfort.

**Complies with IEC 60730-2-7**

**Technical data**

- supply voltage: 230V AC, 50Hz
- battery reserve: for 24h and 7 days versions
- output: 1 NO voltage free changeover contact 16A, 250V AC1
- programming by captive segments
- manual override on 1 module devices: automatic and permanent ON
- manual override on 3 module devices: automatic, permanent ON and permanent OFF

**Connection capacity**

- 1.5 mm<sup>2</sup> max, rigid



EHN010

Description	Cycle	Battery reserve	Width in modules	Cat. Ref.	Cat. Ref. (new)
<b>Compact modular version</b>					
24h cycle, without battery reserve,	24h	x	1	<b>EH010</b>	<b>EHN010</b>
24h cycle, with battery reserve	24h	x	1	<b>EH011</b>	<b>EHN011</b>
<b>Standard modular version</b>					
24h cycle, without battery reserve	24h	✓	3	<b>EH110</b>	<b>EHN110</b>
24h cycle, with battery reserve	24h	✓	3	<b>EH111</b>	<b>EHN111</b>
7 day cycle, with battery reserve	7d	✓	3	<b>EH171</b>	<b>EHN171</b>



EHN110

*EHN010 & EHN110 – suitable for 50Hz operation only.*



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# :hager



# Robust & Safe

Manufactured from a tough, durable thermoplastic, the IP66 range is ideal for indoor and outdoor applications where wiring accessories may be vulnerable to the potentially harmful effects of dust or water ingress.

See more about IP66 on our website [www.hager.com/middle-east](http://www.hager.com/middle-east)

## Characteristics:

The IP66 range of switches and sockets are suitable for use in both indoor and outdoor environments, and in areas where there is a potential risk of dust or water penetration. These IP66 rating provides complete protection against dust and high-pressure jets of water from all directions.

Constructed from a UV stabilized & chemically resistant polycarbonate material, they are designed to endure the most challenging outdoor conditions.

## IP66 wall switches

### Characteristics:

- Complies to IEC / BS EN 60529 for IP66 rating
- Switches comply to BS EN 60669-1, a.c.
- Robust and rugged enclosures designed to withstand harsh weather

- Box size: 90 x 90 mm
- Cable entries :  
side: 4 x 20 mm  
back: 1 x 20 mm and 1 x 25 mm



WXPPS12

Description	Pack qty.	Cat. ref.
10AX 1 gang 2 way switch	1	<b>WXPPS12</b>
10AX 2 gang 2 way switch	1	<b>WXPPS22</b>
20AX double pole 1gang 1 way switch	1	<b>WXDP84</b>
20AX double pole 1 gang 1 way switch with neon	1	<b>WXDP84N</b>
20AX double pole 2 gang 1 way switch	1	<b>WXDP842</b>
10A 1 gang bell push switch	1	<b>WXPPS12B</b>

## IP66 socket outlets

### Characteristics:

- Complies to IEC / BS EN 60529 for IP66 rating
- 13A socket outlets comply to BS1363-2, a.c.
- 15A socket outlets comply to BS 546, a.c.
- Robust and rugged enclosures designed to withstand harsh weather
- Unique double hinge allows lid to open a full 180°
- Fixing point for padlock

- Box size :
- Single : 103 x 116.5
- Twin : 164 x 116.5
- Cable entries : Single  
side: 4 x 20 mm  
back: 1 x 20 mm and 1 x 25 mm
- Cable entries : Twin  
side: 6 x 20 mm  
back: 1 x 20 mm and 1 x 25 mm



WXPSS82

Description	Dimensions H x W (mm)	Pack qty.	Cat. ref.
13A 1 gang unswitched socket	103 x 116.5	1	<b>WXPS81</b>
13A 1 gang double pole switched socket	103 x 116.5	1	<b>WXPSS81</b>
13A 1 gang double pole switched socket with neon	103 x 116.5	1	<b>WXPSS81N</b>
13A 2 gang unswitched socket	164 x 116.5	1	<b>WXPS82</b>
13A 2 gang double pole switched socket	164 x 116.5	1	<b>WXPSS82</b>
13A 2 gang double pole switched socket with neon	164 x 116.5	1	<b>WXPSS82N</b>
15A 1 gang double pole switched socket	103 x 116.5	1	<b>WXPSS115</b>

## IP66 fused connection units

### Characteristics:

- Complies to IEC / BS EN 60529 for IP66 rating
- Complies to BS 1363-4
- Robust and rugged enclosures designed to withstand harsh weather

- Unique double hinge allows lid to open a full 180°
- Fixing point for padlock
- Box size: 103 x 116.5 mm
- Cable entries :  
side: 4 x 20 mm  
back: 1 x 20 mm and 1 x 25 mm



WXPSSU83FO

Description	Pack qty.	Cat. ref.
13A DP switched fused connection unit with flex outlet	1	<b>WXPSSU83FO</b>
13A unswitched fused connection unit with flex outlet	1	<b>WXPSU83FO</b>

### Characteristics:

The IP55 range of switches and sockets are perfect for both indoor and outdoor use. They are specially designed for areas frequently exposed to dust and splashing water like gardens, balconies, car parking and swimming pool areas.

These switches and sockets provide some dust ingress protection and are safeguarded against low-pressure water jets from any direction, making them an ideal choice for all your electrical needs. The clear membrane cover allows visible indication of the switch status (on/off).

### IP55 Wall switches

#### Technical features

- Available in 1, 2 and 3 gang
- Clear silicon gasket allows operation of switch without lifting cover
- Clear silicon gasket is replaceable
- Large switch rocker allows easy operation
- Mounting screw locations are segregated from the back box by gaskets for improved IP installations
- IP rated cable gland included

#### Complies to the standard :

**IEC / BS EN 60529: IP 55**  
**BS EN 60669-1: switches**

#### Technical data

- protection category: IP55
- 250V 10AX rated switches
- 1 way and 2 way switches
- 20mm<sup>2</sup> conduit entries available on all sides

#### Connection capacity

- Switch terminals capable of taking 3 x 1.5mm<sup>2</sup> or 2 x 2.5mm<sup>2</sup> cables
- Earth terminal mounted in back box



XPW5120 / 5110

Description	Cat. ref.
10AX 1 gang 1 way switch	<b>XPW5110</b>
10AX 1 gang 2 way switch	<b>XPW5120</b>
10AX 2 gang 1 way switch	<b>XPW5210</b>
10AX 2 gang 2 way switch	<b>XPW5220</b>
10AX 3 gang 1 way switch	<b>XPW5310</b>
10AX 3 gang 2 way switch	<b>XPW5320</b>
20AX 1 gang double pole switch	<b>XRW5200</b>
1 gang bell press	<b>XPW5910</b>

### IP55 Socket Outlets

#### Technical features

- Available in 1 and 2 gang
- Clear silicon gasket allows operation of switch without lifting cover.
- Clear silicon gasket is replaceable.
- Large switch rocker allows easy operation.
- Mounting screw locations are segregated from the back box by gaskets for improved IP installations.
- IP rated cable gland included.

#### Complies to the standard :

**IEC / BS EN 60529: IP 55**  
**BS 1363 : sockets**

#### Technical data

- protection category: IP55
- 250V 13A sockets
- 1 gang and 2 gang versions
- 20mm<sup>2</sup> conduit entries available on all sides

#### Connection capacity

- Socket terminals capable of taking 3 x 2.5mm<sup>2</sup> or 2 x 4mm<sup>2</sup> cables
- Earth terminal mounted in back box.



XSW5213

Description	Cat. ref.
13A 1 gang unswitched socket	<b>XSW5113</b>
13A 2 gang unswitched socket	<b>XSW5213</b>
13A 1 gang DP switched socket	<b>XSW5114</b>
13A 2 gang DP switched socket	<b>XSW5214</b>



XPW5114



### Characteristics:

The range of IP66 isolators are designed to be used in outdoor applications with IP66 degree of protection. They are rated at AC23A and offer options of 2, 3 poles and 4 poles with switched neutral. They are compact and easy to install with 2 screw quick release top cover.

**Complies with BS EN 60947-3, IEC 60947-3**

### Technical data

- Rated voltage:  
250 V AC  
440 V AC
- Material: polycarbonate – UV grade.
- Utilisation category: AC23A
- For switching of motor loads or other highly inductive loads
- Protection category: IP66
- Poles :  
2P : 20A - 63A  
3P & N : 20A - 40A  
4P (3P & SW N) : 20A - 63A



JG320IN

Description	Pack qty.	Cat. ref.
<b>2 pole</b>		
20A 2 pole IP66	1	<b>JG220IN</b>
32A 2 pole IP66	1	<b>JG232IN</b>
40A 2 pole IP66	1	<b>JG240IN</b>
63A 2 pole IP66	1	<b>JG263IN</b>
<b>3 pole</b>		
20A 3 pole IP66	1	<b>JG320IN</b>
32A 3 pole IP66	1	<b>JG332IN</b>
40A 3 pole IP66	1	<b>JG340IN</b>
<b>4 pole + switched neutral</b>		
20A 4 pole IP66	1	<b>JG420IN</b>
32A 4 pole IP66	1	<b>JG432IN</b>
40A 4 pole IP66	1	<b>JG440IN</b>
63A 4 pole IP66	1	<b>JG463IN</b>

**Characteristics:**

Screed floor system offers you great functionality, as it is the most frequently used technology for floor installation. The floor boxes are interconnected via conduits or trunkings, allowing an optimized supply of the building as well as a direct access from the floor to electrical power, data and telecommunication.

**Technical data**

- Galvanised steel
- Rust protection
- Adapted for conduits with a diameter of 25mm
- Special plate adapted for trunking installation (25 or 38 mm height)
- Supply unit made of polyamide according to EN 50085-2-2

**Application**

- 3 compartments
- Mounting in screed
- Height adjustable by lid and frame, 80 - 110 mm

**Plates:**

- Function as an outlet box to install power and data

**Lid:**

- For dry rooms with dry cleaned floors
- Carpet or tile flooring height of 8 mm

	Description	Characteristics	Cat. ref.
UDBSQ06	Service outlet box (outlet and lid)	dimensions: 268 x 268 mm	<b>UDBSQ06</b>
GTVPB00	Blank plate	sheet steel for service outlet box	<b>GTVPB00</b>
GTVBS25	13A BS twin switched socket outlet	plate and module	<b>GTVBS25</b>
GTVDP4M	Data outlet plate	2 x 2 gang (without data module) sheet plate 45x45 mm	<b>GTVDP4M</b>
GTVSP452	Socket modules plate	2 x 2 gang (without data module) sheet plate 45x45 mm	<b>GTVSP452</b>
WGMRJ456	RJ45 data module	keystone 8 pin cat6 data dimen- sions: 22.5 x 45 mm	<b>WGMRJ456</b>
WGMRJ11	RJ11 data module	keystone 4 pin cat6 telephone dimensions: 22.5 x 45 mm	<b>WGMRJ11</b>
WGMV1	Blank module	white plastic dimensions: 22.5 x 45 mm	<b>WGMV1</b>
WGSM113	BS module	13A BS socket dimensions: 45 x 45 mm	<b>WGSM113</b>





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