



HND631H

## MCCB h630 4P 50kA 630A LSI

### Architecture

Type of order	Toggle
Type of case	Fixed built-in
Number of poles	4 P
Type of pole	4P4D N:0;50;100%

### Functions

Complete device with protection unit	yes
Trip Unit	LSI
Integrated earth fault protection	no

### Compatibility

Compatible with DIN rail mounting	no
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### Controls and indicators

Motor drive integrated	no
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### Main electrical features

Frequency	50/60 Hz
Rated operational voltage Ue	220/690 V

### Voltage

Rated insulation voltage	800 V
Rated impulse withstand voltage	8000 V
With under voltage release	no

### Electric current

Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	50 kA
Rated service breaking capacity Ics AC according IEC 60947-2	100 %
Breaking capacity on 1 pole with 230 V NF 60947-2	51 kA
Breaking capacity on 1 pole with 400 V NF 60947-2	9 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	85 kA

#### Technical Properties

Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-2	45 kA
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	20 kA
Thermal protection nob setting xI <sub>N</sub>	0,4/0,5/0,63/0,8/0,9/0,95/1
Thermal setting current on neutral pole	0/0,5/1 I <sub>N</sub>

#### Current correction factors

Correction factor of rating current for 2 devices placed 1 side-by-side	
Correction factor of rating current for 3 devices placed 1 side-by-side	
Correction factor of rating current for 4 and 5 devices 1 placed side-by-side	
Correction factor of rating current for 6 devices placed 1 side-by-side	

#### Power

Power loss per pole at I <sub>N</sub>	40 W
Power loss per pole at 0.63*I <sub>N</sub>	15,9 W
Power loss per pole at 0.8*I <sub>N</sub>	25,6 W
Total power loss under I <sub>N</sub>	120 W
Total power loss at 0.63*I <sub>N</sub>	47,6 W
Total power loss at 0.8*I <sub>N</sub>	76,8 W

#### Tripping

Trip mode	LSI
Thermal protection trip time	5/10/11/16/21 ms
Time of response when opening	10 ms

#### Electrical specifications

Magnetic trip delay time	100 to 200 ms
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#### Endurance

Electric endurance in number of cycles	1000
Number of mechanical operations	4000

#### Installation, mounting

Tightening torque	22Nm
DIN rail mounting with optional adaptor	no

#### Connection

Connection cross-sect. rigid cable	35 / 240mm <sup>2</sup>
Connection cross-sect. flexible conductor	35 / 240mm <sup>2</sup>
Connection	Front connection
Type of connection	Terminal

#### Settings

Magnetic protection nob setting xIN	2,5/5/8
Setting type In or Ith	IrTh
Range of the magnetic adjustment	3500/4410/5600/6300/6300/6300/ 6300/6300 A

#### Equipment

Motor drive optional	yes
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#### Use cases

Category of use	A
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#### Standards

Standard text	IEC 60947-2
European directive WEEE	concerned

#### Safety

Protection index IP	IP4X
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#### Use conditions

Altitude	2000 m
Storage temperature	-35 to 70 °C
Air humidity protection	for all climates