

MCCB h800 4P0-100% 50kA 630A TM

Architecture

Type of order	Toggle
Type of case	Fixed built-in
Number of poles	3 P
Type of pole	4P3D

Functions

Complete device with protection unit	yes
Trip Unit	TM A/A
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
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 xIN	0,4/0,5/0,63/0,9/0,95/1

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_n	45,4 W
Power loss per pole at $0.63 \cdot I_n$	18 W
Power loss per pole at $0.8 \cdot I_n$	29,1 W
Total power loss under I_n	136,2 W
Total power loss at $0.63 \cdot I_n$	54,1 W
Total power loss at $0.8 \cdot I_n$	87,2 W

Tripping

Trip mode	TM
Thermal protection trip time	5/10/11/19/21/29 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	65Nm
DIN rail mounting with optional adaptor	no

Connection

Connection cross-sect. rigid cable	2x240mm ²
Connection cross-sect. flexible conductor	2x240mm ²
Connection	Front connection
Type of connection	Terminal

Settings

Magnetic protection nob setting x I_n	2,5/5/10
Setting type I_n or I_{th}	I_rTh
Range of the magnetic adjustment	3150/3780/4410/5040/5670/6300 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