Product data sheet MBN406





MCB 4P 6kA B-6A 4M

Technical properties

Number of protected poles	2
Number of poles	4
Type of pole	4
Curve	
Functions	
Concurrently switching N-neutral	Ν
Configuration	
Number of modules	
Connectivity	
Top connection alignement for modular devices	Aligned termina
Bottom connection alignement for modular devices	Aligned termina
Main electrical features	
Rated short circuit breaking capacity Icn AC according IEC60898-1	6 k
Rated operational voltage Ue	230 / 400
Type of supply voltage	A
Frequency	50/60 H
Voltage	
Rated insulation voltage	500
Rated impulse withstand voltage	4000
Electric current	
Rated current	6
Rated service breaking capacity Ics AC according IEC 60898-1	6 k
min/maxi threshold value of the AC thermal operation	1.13 / 1.45
Magnetic regulating currrent	3 / 5
min/maxi threshold value of the DC magnetic operation	4 / 7
min/maxi threshold value of the DC thermal operation	1.13 / 1.45
Breaking capacity on 1 pole for IT 400V NF 60947-2	3 k
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	6 k
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Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	10 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	10 kA
Electric current / temperature	
Rating current -25°C	7.5 A
Rating current -20°C	7.4 A
Rating current -15°C	7.3 A
Rating current -10°C	7.1 A
Rating current -5°C	7 A
Rating current 0°C	6.8 A
Rating current 5°C	6.7 A
Rating current 10°C	6.6 A
Rating current 15°C	6.4 A
Rating current 20°C	6.3 A
Rating current 25°C	6.1 A
Rating current 30°C	6 A

5.8 A

5.7 A

5.5 A

5.3 A

5.1 A

5 A

4.8 A

4.6 A

1

0.95

0.9

0.85

50 to 60 Hz

Subject to technical modifications

Frequency	
Width of installed product	70 mm
Height of installed product	83 mm
Depth of installed product	70 mm
Dimensions	
Correction factor of magnetic tripping with 60 Hz	1
Correction factor of magnetic tripping with 400 Hz	1.5
Correction factor of magnetic tripping with 200 Hz	1.2
100 Hz	1.1

Current correction factors

devices placed side-by-side

devices placed side-by-side

5 devices placed side-by-side

devices placed side-by-side

Frequency

Correction factor of rating current for 2

Correction factor of rating current for 3

Correction factor of rating current for 6

Correction factor of magnetic tripping with

Correction factor of rating current for 4 and

Rating current 35°C

Rating current 40°C

Rating current 45°C

Rating current 50°C

Rating current 55°C

Rating current 60°C

Rating current 65°C

Rating current 70°C

1.3 W
4000
20000
with screw
2,8Nm
Blconnect
1 / 25mm²
1 / 35mm²
1 / 35 mm²
1 / 25 mm²
with screw
EN 60898-1
No
Yes
No
-2570 °C
2
3
2000 m
for all climates