



MHN710



**MCB 1P+N 4.5kA B-10A 1M**

**Technical properties**

**Architecture**

Neutral position	left
Number of protected poles	1
Number of poles	2 P
Type of pole	1P+N
Curve	B

**Functions**

Concurrently switching N-neutral	Yes
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**Configuration**

Number of modules	1
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**Connectivity**

Top connection alignment for modular devices	Shifted terminal
Bottom connection alignment for modular devices	Shifted terminal

**Main electrical features**

Rated short circuit breaking capacity $I_{cn}$ AC according IEC60898-1	4.5 kA
Rated operational voltage $U_e$	230 / 240 V
Type of supply voltage	AC
Frequency	50/60 Hz

**Voltage**

Rated insulation voltage	500 V
Max operating voltage	253 V
Rated impulse withstand voltage	4000 V

**Electric current**

Rated current	10 A
Rated service breaking capacity $I_{cs}$ AC according IEC 60898-1	4.5 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 $I_n$
Magnetic regulating current	3 / 5 $I_n$
Rated short circuit breaking capacity $I_{cn}$ under 230V AC according IEC60898-1	4.5 kA

**Electric current / temperature**

Rating current -25°C	12.9 A
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Rating current -20°C	12.7 A
Rating current -15°C	12.4 A
Rating current -10°C	12.2 A
Rating current -5°C	11.9 A
Rating current 0°C	11.7 A
Rating current 5°C	11.4 A
Rating current 10°C	11.1 A
Rating current 15°C	10.9 A
Rating current 20°C	10.6 A
Rating current 25°C	10.3 A
Rating current 30°C	10 A
Rating current 35°C	9.7 A
Rating current 40°C	9.4 A
Rating current 45°C	9.1 A
Rating current 50°C	8.7 A
Rating current 55°C	8.4 A
Rating current 60°C	8 A
Rating current 65°C	7.6 A
Rating current 70°C	7.2 A

#### Current correction factors

Correction factor of rating current for 2 devices placed side-by-side	1
Correction factor of rating current for 3 devices placed side-by-side	0.95
Correction factor of rating current for 4 and 5 devices placed side-by-side	0.9
Correction factor of rating current for 6 devices placed side-by-side	0.85
Correction factor of magnetic tripping with 100 Hz	1.1
Correction factor of magnetic tripping with 200 Hz	1.2
Correction factor of magnetic tripping with 400 Hz	1.5
Correction factor of magnetic tripping with 60 Hz	1

#### Dimensions

Depth of installed product	70 mm
Height of installed product	84.7 mm
Width of installed product	17.5 mm

#### Frequency

Frequency	50 to 60 Hz
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#### Power

Total power loss under IN	2.6 W
Power loss per pole at In	1.8 W

#### Endurance

Electric endurance in number of cycles	1000
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Subject to technical modifications

**Installation, mounting**

Type of top connection for modular devices	with screw
Tightening torque	1,9Nm
Type of top rail clip for modular devices	Plastic
Type of bottom rail clip for modular devices	metallic
Type of Bottom Connection for modular devices	with screw
Top removability for modular devices	Yes
Bottom removability for modular devices	No
Suitable for flush-mounting	Yes

**Connection**

Connection cross-section at output with screw, for flexible conductor	1 / 16 mm <sup>2</sup>
Connection cross-section at output with screw, for massive conductor	1 / 25 mm <sup>2</sup>
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 25 mm <sup>2</sup>
Connection cross-section of the access with screws, with flexible conductor	1 / 16 mm <sup>2</sup>
Connection cross-section of input and output with screws, for massive conductors	1 / 25 mm <sup>2</sup>
Connection cross section of access and exit with screws, for flexible conductor	1 / 16 mm <sup>2</sup>
Type of connection	with screw

**Standards**

Standard text	EN 60898-1
European directive WEEE	concerned

**Safety**

Protection index IP	IP20
REACH conform	No
RoHS conform	Yes
Halogen free	No

**Use conditions**

Operating temperature	-25...70 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-25...80 °C