



MJN710



MCB 1P+N 4.5kA C-10A 1M

Technical characteristics

Architecture

Type of pole	1P+N
Curve	C

Electric current

Rated current	10 A
Rated service breaking capacity Ics AC according to IEC 60898-1	4.50 kA
Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1	4.50 kA
Min./max. threshold value of the AC thermal operation	1.13 - 1.45 A
Min./max. threshold value of the DC thermal operation	1.13 - 1.45 A
Rated current -25°C	12.90 A
Rated current at -20°C	12.70 A
Rated current -15°C	12.40 A
Rated current -10°C	12.20 A
Rated current -5°C	11.90 A
Rated current at 0°C	11.70 A
Rated current 5°C	11.40 A
Rated current 10°C	11.10 A
Rated current 15°C	10.90 A
Rated current at 20°C	10.60 A
Rated current 25°C	10.30 A
Rated current 30°C	10 A
Rated current 35°C	9.70 A
Rated current at 40°C	9.40 A
Rated current at 45°C	9.10 A
Rated current at 50°C	8.70 A
Rated current 55°C	8.40 A
Rated current 60°C	8 A
Rated current 65°C	7.60 A
Rated current 70°C	7.20 A
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	0.90

Correction factor of rating current for 6 devices placed side by side	0.85
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Installation, mounting

Nominal tightening torque down terminal	1.90 - 1.90 Nm
Nominal tightening torque top terminal	1.90 - 1.90 Nm
Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	Screw terminal
Nominal tightening torque	1.90 - 1.90 Nm

Main electrical attributes

Rated short-circuit breaking capacity Icn AC according to IEC 60898-1	4.50 kA
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Voltage

Rated operational voltage Ue	230 - 240 V
Type voltage supply	AC
Rated insulation voltage Ui	500 V
Rated impulse withstand voltage Uimp	4,000 V
Max. operating voltage	253 V
Overvoltage category according to IEC 60947-1	3

Frequency

Frequency	50 - 60 Hz
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Capacity

Number of modules	1
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Power

Total power loss under IN	2.60 W
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Use conditions

Operating temperature	-25 - 70 °C
Max. Altitude	2,000 m

Endurance

Electric endurance in number of cycles	1,000
Number of mechanical operations	20,000

Safety

Ingress Protection (IP) class	IP20
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Connectivity

Type of connection	Screw terminal
Top connection alignment for modular devices	Shifted terminal
Down connection alignment for modular devices	Shifted terminal

Connection

Cross-section of output with screws, for massive conductors	1 - 25 mm²
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Subject to technical modifications

Cross-section of output with screws, for flexible conductors	1 - 16 mm ²
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Dimensions

Height	84.70 mm
Width	17.50 mm
Depth	70 mm