



MJN725



## MCB 1P+N 4.5kA C-25A 1M

### Technical characteristics

#### Architecture

Type of pole	1P+N
Curve	C

#### Electric current

Rated current	25 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	32 A
Rated current at -20°C	31.50 A
Rated current -15°C	30.90 A
Rated current -10°C	30.30 A
Rated current -5°C	29.70 A
Rated current at 0°C	29 A
Rated current 5°C	28.40 A
Rated current 10°C	27.80 A
Rated current 15°C	27.10 A
Rated current at 20°C	26.40 A
Rated current 25°C	25.70 A
Rated current 30°C	25 A
Rated current 35°C	24.30 A
Rated current at 40°C	23.50 A
Rated current at 45°C	22.70 A
Rated current at 50°C	21.90 A
Rated current 55°C	21.10 A
Rated current 60°C	20.20 A
Rated current 65°C	19.20 A
Rated current 70°C	18.30 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
---	------

#### 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 I <sub>cn</sub> AC according to IEC 60898-1	4.50 kA
---	---------

#### Voltage

Rated operational voltage U <sub>e</sub>	230 - 240 V
Type voltage supply	AC
Rated insulation voltage U <sub>i</sub>	500 V
Rated impulse withstand voltage U <sub>imp</sub>	4,000 V
Max. operating voltage	253 V
Overvoltage category according to IEC 60947-1	3

#### Frequency

Frequency	50 - 60 Hz
-----------	------------

#### Capacity

Number of modules	1
-------------------	---

#### Power

Total power loss under I <sub>N</sub>	5.80 W
---------------------------------------	--------

#### 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
-------------------------------	------

#### Connection

Cross-section of output with screws, for massive conductors	1 - 25 mm²
Cross-section of output with screws, for flexible conductors	1 - 16 mm²

#### Connectivity

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

Subject to technical modifications

Down connection alignment for modular devices

Shifted terminal

Dimensions

Height	84.70 mm
Width	17.50 mm
Depth	70 mm