



MLN706A

**MCB 1P+N 6kA C-6A 1M**

**Technical characteristics**

**Architecture**

Type of pole	1P+N
Curve	C

**Electric current**

Rated current	6 A
Rated service breaking capacity Ics AC according to IEC 60898-1	6 kA
Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1	6 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	7.80 A
Rated current at -20°C	7.60 A
Rated current -15°C	7.50 A
Rated current -10°C	7.30 A
Rated current -5°C	7.20 A
Rated current at 0°C	7 A
Rated current 5°C	6.90 A
Rated current 10°C	6.70 A
Rated current 15°C	6.50 A
Rated current at 20°C	6.40 A
Rated current 25°C	6.20 A
Rated current 30°C	6 A
Rated current 35°C	5.80 A
Rated current at 40°C	5.60 A
Rated current at 45°C	5.40 A
Rated current at 50°C	5.20 A
Rated current 55°C	5 A
Rated current 60°C	4.80 A
Rated current 65°C	4.50 A
Rated current 70°C	4.30 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
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### Main electrical attributes

Rated short-circuit breaking capacity I <sub>cn</sub> AC according to IEC 60898-1	6 kA
Nominal tightening torque down terminal	1.90 - 1.90 Nm
Nominal tightening torque top terminal	1.90 - 1.90 Nm

### 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
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### Capacity

Number of modules	1
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### Installation, mounting

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

### Power

Total power loss under I <sub>N</sub>	1.30 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 input with screws, for massive conductors	1 - 25 mm <sup>2</sup>
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Cross-section of input with screws, for flexible conductors

1 - 16 mm<sup>2</sup>

**Dimensions**

Height	84.70 mm
Width	17.50 mm
Depth	70 mm