MLN706A

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

Technical properties

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

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	6 kA

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

Capacity

Number of modules	1

Power

Total power loss under IN	1.30 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

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^2

Cross-section of input with screws, for flexible conductors	1 - 16 mm²

Dimensions

Height	84.70 mm
Width	17.50 mm
Depth	70 mm