



MCB 1P 6kA B-20A 1M

MBN120

Architecture

Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	B

Connectivity

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

Main electrical features

Frequency	50/60 Hz
Rated short circuit breaking capacity I_{cn} AC according IEC60898-1	6 kA
Type of supply voltage	AC
Rated operational voltage U_e	230/400 V

Voltage

Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V

Electric current

Rated short circuit breaking capacity I_{cn} under 230V AC according IEC60898-1	6 kA
Rated service breaking capacity I_{cs} AC according IEC 60898-1	6 kA
Rated ultimate short-circuit breaking capacity I_{cu} under 230V AC IEC 60947-2	6 kA
Magnetic regulating current at 40° C	3/5 I_n
min/maxi threshold value of the AC thermal operation	1,13/1,45 I_n

Electric current / temperature

Rating current -15°C	25,93 A
Rating current -20°C	26,55 A
Rating current 0°C	24,05 A
Rating current 10°C	22,8 A
Rating current -10°C	25,4 A

Technical Properties

Rating current 15°C	22,18 A
Rating current 20°C	21,55 A
Rating current 25°C	20,93 A
Rating current -25°C	27,18 A
Rating current 30°C	20 A
Rating current 35°C	19,68 A
Rating current 40°C	19,05 A
Rating current 45°C	18,43 A
Rating current 5°C	23,43 A
Rating current -5°C	24,68 A
Rating current 50°C	18 A
Rating current 55°C	17,18 A
Rating current 60°C	16,55 A
Rating current 65°C	15,93 A
Rating current 70°C	15,3 A

Current correction factors

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
Correction factor of rating current for 2 devices placed 1 side-by-side	
Correction factor of rating current for 3 devices placed 0,95 side-by-side	
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 0,85 side-by-side	

Power

Power loss per pole at In	2,79 W
Total power loss under IN	2,79 W

Endurance

Electric endurance in number of cycles	4000
Number of mechanical operations	20000

Dimensions

Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	17,5 mm

Installation, mounting

Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of Bottom Connection for modular devices	Blconnect

Connection

Connection cross-sect. rigid cable	1 / 35mm ²
Connection cross-sect. flexible conductor	1 / 25mm ²
Type of connection	with screw
Connection cross section of access and exit with screws, for flexible conductor	1/25 mm ²

Technical Properties

Connection cross-section of input and output with screws, for massive conductors	1/35 mm ²
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Standards

Standard text	EN 60898-1
European directive WEEE	concerned

Safety

Protection index IP	IP20
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Use conditions

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