



MBN120



## MCB 1P 6kA B-20A 1M

### Technical properties

#### Architecture

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

#### Functions

Concurrently switching N-neutral	No
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#### Configuration

Number of modules	1
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#### Connectivity

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

#### Main electrical features

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

#### Voltage

Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V

#### Electric current

Rated current	20 A
Rated service breaking capacity $I_{cs}$ AC according IEC 60898-1	6 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 $I_n$
Magnetic regulating current	3 / 5 $I_n$
Rated short circuit breaking capacity $I_{cn}$ under 230V AC according IEC60898-1	6 kA
Rated ultimate short-circuit breaking capacity $I_{cu}$ under 230V AC IEC 60947-2	6 kA

#### Electric current / temperature

Rating current -25°C	27.18 A
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Rating current -20°C	26.55 A
Rating current -15°C	25.93 A
Rating current -10°C	25.4 A
Rating current -5°C	24.68 A
Rating current 0°C	24.05 A
Rating current 5°C	23.43 A
Rating current 10°C	22.8 A
Rating current 15°C	22.18 A
Rating current 20°C	21.55 A
Rating current 25°C	20.93 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 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 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	0.9
Correction factor of rating current for 6 devices placed side-by-side	0.85
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

#### Dimensions

Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	17.5 mm

#### Frequency

Frequency	50 to 60 Hz
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#### Power

Total power loss under IN	2.79 W
Power loss per pole at In	2.79 W

#### Endurance

Electric endurance in number of cycles	4000
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Subject to technical modifications

Number of mechanical operations 20000

### 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. flexible conductor	1 / 25mm <sup>2</sup>
Connection cross-sect. rigid cable	1 / 35mm <sup>2</sup>
Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm <sup>2</sup>
Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm <sup>2</sup>
Type of connection	with screw

### Standards

Standard text	EN 60898-1
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### Safety

REACH conform	No
Halogen free	No

### Use conditions

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