



MBN120



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

**Technical properties** 

Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Functions	
Concurrently switching N-neutral	Nc
Configuration	
Number of modules	1
Connectivity	
Top connection alignement for modular devices	Aligned termina
Bottom connection alignement for modular devices	Aligned termina
Main electrical features	
Rated short circuit breaking capacity Icn AC according IEC60898-1	6 kA
Rated operational voltage Ue	230 / 400 \
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 Ics AC according IEC 60898-1	6 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 lr
Magnetic regulating currrent	3 / 5 Ir
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA
Rated ultimate short-circuit breaking capa- city Icu under 230V AC IEC 60947-2	6 kA
Electric current / temperature	
Rating current -25°C	27.18 A
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
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

20000

Number of mechanical operations

Subject to technical modifications

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-section of input and output with screws, for massive conductors	1 / 35 mm²
Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm²
Standards	
Standard text	EN 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
Use conditions	
Operating temperature	-2570 °C
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Storage/transport temperature	-2580 °C