

50/60 Hz



MBN320

MCB 3P 6kA B-20A 3M

Technical characteristics

Connectivity

Frequency

Main electrical features

Architecture	
Number of protected poles	3
Number of poles	3 P
Curve	В

Functions	
Concurrently switching N-neutral	No

Configuration	
Number of modules	3

Aligned terminal
Aligned terminal

Rated short circuit breaking capacity Icn AC according IEC60898-1	6 kA
Rated operational voltage Ue	230 / 400 V
Type of supply voltage	AC

Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V

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 In
Magnetic regulating currrent	3 / 5 In
min/maxi threshold value of the DC	
magnetic operation	4 / 7 In
min/maxi threshold value of the DC thermal	
operation	1.13 / 1.45 In

Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	10 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	10 kA
Electric current / temperature	
Rating current -25°C	25.3 A
Rating current -20°C	24.9 /
Rating current -15°C	24.4 /
Rating current -10°C	24 /
Rating current -5°C	23.5 /
Rating current 0°C	23.1 /
Rating current 5°C	22.6
Rating current 10°C	22.1 /
Rating current 15°C	21.6
Rating current 20°C	21.1
Rating current 25°C	20.5
Rating current 30°C	20 /
Rating current 35°C	19.4 /
Rating current 40°C	18.7
Rating current 45°C	18 /
Rating current 50°C	17.3 /
Rating current 55°C	16.6
Rating current 60°C	15.8 /
Rating current 65°C	15 /
Rating current 70°C	14.1 /
Current correction factors	
Correction factor of rating current for 2 devices placed side-by-side	:
Correction factor of rating current for 3 devices placed side-by-side	0.99
Correction factor of rating current for 4 and 5 devices placed side-by-side	0.0
Correction factor of rating current for 6 devices placed side-by-side	0.85
Correction factor of magnetic tripping with 100 Hz	1.:
Correction factor of magnetic tripping with 200 Hz	1.:
Correction factor of magnetic tripping with 400 Hz	1.:
Correction factor of magnetic tripping with 60 Hz	
Dimensions	
Depth of installed product	70 mn
Height of installed product	83 mr
Width of installed product	52.5 mn
Frequency	
Frequency	50 to 60 H

Power	
Total power loss under IN	8.9 W
Power loss per pole at In	3.1 W
Endurance	
Electric endurance in number of cycles	4000
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-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
Type of connection	with screw
Standards	
Standard text	EN 60898-1
Safety	
Protection index IP	IP20
REACH conform	No
RoHS conform	Yes
Halogen free	No
Use conditions	
Operating temperature	-2570 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I²t	3
Altitude	2000 m
Air humidity protection	for all climates

-25...80 °C

Storage/transport temperature