

MCB 2P 10kA B-20A 2M

NBN220

Architecture

Neutral position	without neutral	
Number of protected poles	2	
Number of poles	2 P	
Type of pole	2 P	
Curve	В	

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

Main electrical features

Frequency	50/60 Hz
Type of supply voltage	AC
Rated operational voltage Ue	400 V

Voltage

Minimum threshold voltage (Ue min)	12 V
Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V

Electric current

Breaking capacity on 1 pole with 400 V NF 60947-2	3 kA
Magnetic regulating currrent at 40° C	3/5 ln
min/maxi threshold value of the DC magnetic operation	4/7 In
min/maxi threshold value of the AC thermal operation	n 1,13/1,45 ln
min/maxi threshold value of the DC thermal operation	1.13/1.45 ln

Electric current / temperature

Rating current -15°C	24,24 A
Rating current -20°C	24,66 A
Rating current 0°C	22,91 A
Rating current 10°C	21,98 A
Rating current -10°C	23,8 A
Rating current 15°C	21,51 A
Rating current 20°C	21,02 A

Technical Properties	
Rating current 25°C	20,51 A
Rating current -25°C	25,08 A
Rating current 30°C	20 A
Rating current 35°C	19,47 A
Rating current 40°C	18,93 A
Rating current 45°C	18,37 A
Rating current 5°C	22,45 A
Rating current -5°C	23,36 A
Rating current 50°C	17,8 A
Rating current 55°C	17,2 A
Rating current 60°C	16,58 A
Rating current 65°C	15,94 A
Rating current 70°C	15,28 A
nating current to 0	10,20 /
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	1,1
Correction factor of rating current for 2 devices placed	11
side-by-side	
Correction factor of rating current for 3 devices placed	10,95
side-by-side	
Correction factor of rating current for 4 and 5 devices	0.9
placed side-by-side	
Correction factor of rating current for 6 devices placed	10,85
side-by-side	
Power	
Power loss per pole at In	2,68 W
Total power loss under IN	5,29 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	35 mm
Water of motalica product	00111111
Installation, mounting	
Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of bottom rail clip for modular devices	plastic
Type of top rail clip for modular devices	NA .
Type of Bottom Connection for modular devices	Blconnect
Bottom removability for modular devices	yes
Top removability for modular devices	•
rop removability for modular devices	yes

Connection

Connection cross-sect. rigid cable	1 / 35mm²
Connection cross-sect. flexible conductor	1 / 25mm²
Type of connection	with screw
Connection cross section of access and exit with screws, for flexible conductor	1/25 mm²
Connection cross-section of input and output with screws, for massive conductors	1/35 mm²
Standards	
Standard text	EN 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Operating temperature	-25 70 °C
Class of energy limitation I2t	3
Altitude	2000 m
Storage temperature	-25 to 80 °C
Air humidity protection	for all climates
Storage/transport temperature	-25 80 °C