



NBN163



## MCB 1P 10kA B-63A 1M

**Technical properties** 

Neutral position	without neutral
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	В
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	1
Connectivity	
Top connection alignement for modular devices	Aligned terminal
Bottom connection alignement for modular devices	Aligned terminal
Main electrical features	
Rated short circuit breaking capacity Icn AC according IEC60898-1	10 kA
Rated operational voltage Ue	230 / 400 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V
Minimum threshold voltage (Ue min)	12 V
Electric current	
Rated current	63 A
Rated service breaking capacity Ics AC according IEC 60898-1	7.5 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

Breaking capacity on 1 pole for IT 400V NF 60947-2	3 kA
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	10 kA
Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1	10 kA

## Electric current / temperature

Rating current -25°C	81.04 A
Rating current -20°C	79.57 A
Rating current -15°C	78.07 A
Rating current -10°C	76.54 A
Rating current -5°C	75.05 A
Rating current 0°C	73.54 A
Rating current 5°C	72.03 A
Rating current 10°C	70.52 A
Rating current 15°C	69 A
Rating current 20°C	67.47 A
Rating current 25°C	65.95 A
Rating current 30°C	63 A
Rating current 35°C	62.03 A
Rating current 40°C	60.5 A
Rating current 45°C	58.68 A
Rating current 50°C	58.27 A
Rating current 55°C	52.8 A
Rating current 60°C	50.51 A
Rating current 65°C	48.12 A
Rating current 70°C	45.6 A

## **Current correction factors**

1 0.95 0.9
0.9
0.85
0.00
1.1
1.2
1.5
1.1

70 mm

83 mm 17.5 mm

# Depth of installed product Height of installed product

Width of installed product

#### Frequency

Frequency	50 to 60 Hz
Power	
Total power loss under IN	5.73 V
Power loss per pole at In	5.73 V
Endurance	
Electric endurance in number of cycles	4000
Number of mechanical operations	2000
Installation, mounting	
Type of top connection for modular devices	with screw
Tightening torque	2,8Nn
Type of top rail clip for modular devices	N
Type of bottom rail clip for modular devices	plasti
Type of Bottom Connection for modular devices	Blconnec
Top removability for modular devices	Ye
Bottom removability for modular devices	Ye
Connection	
Connection cross-sect. flexible conductor	1 / 25mm
Connection cross-sect. rigid cable	1 / 35mm
Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm
Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm
Standards	
Standard text	EN 60898-
European directive WEEE	concerne
Safety	
Protection index IP	IP2
Use conditions	
Operating temperature	-2570 °
Degree of pollution according to IEC 60664 / IEC 60947-2	
Class of energy limitation I <sup>2</sup> t	:
Altitude	2000 r
Air humidity protection	for all climate
Storage/transport temperature	-2580 °C