Product Datasheet
NBN163R



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MCB 1P 10kA/15kA B-63A 1M

Technical Features

Electric current	
Rated current IN	63 A
Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2	7.50 kA
Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1	10 kA
Rated ultimate short-circuit breaking capacity Icu AC IEC 60947-2	15 kA
Rated current at -15°C	78.23 A
Rated current at -10°C	76.54 A
Rated current at -5°C	74.85 A
Rated current at 0°C	73.16 A
Rated current at 5°C	71.46 A
Rated current at 10°C	69.77 A
Rated current at 15°C	68.08 A
Rated current at 20°C	66.39 A
Rated current at 25°C	64.69 A
Rated current at 30°C	63 A
Rated current at 35°C	61.82 A
Rated current at 40°C	60.64 A
Rated current at 45°C	59.45 A
Rated current at 50°C	58.27 A
Rated current at 55°C	57.09 A
Rated current at 60°C	55.91 A
Rated current at 65°C	54.72 A
Rated current at 70°C	53.54 A

Architecture	
Type of pole	1P

Electric current	
Rated service breaking capacity Ics AC according to IEC 60947-2	50 %
Rated service breaking capacity Ics AC according to IEC 60898-1	7.50 kA
Rated ultimate short-circuit breaking capacity Icu under 230 V AC IEC 60947-2	15 kA

Architecture	
Curve	B

Capacity	
Number of modules	1

Main electrical attributes	
Rated short-circuit breaking capacity Icn AC according to IEC 60898-1	10 kA

Installation, mounting	
Nominal tightening torque top terminal	2.80 - 2.80 Nm
Nominal tightening torque down terminal	2.80 - 2.80 Nm
Nominal tightening torque	2.80 - 2.80 Nm

Voltage	
Rated operational voltage Ue	230 - 400 V
Type voltage supply	AC
Rated insulation voltage Ui	500 V
Rated impulse withstand voltage Uimp	6000 V

Frequency	
Frequency	50 - 60 Hz

Connection	
Cross-section of top and bottom terminal with screws, for rigid conductors	1 - 35 mm^2
Cross-section of top and bottom terminal with screws, for flexible conductors	1 - 25 mm^2
Cross-section of top terminal with screws, for flexible conductors	1 - 25 mm^2

Connection	
Cross-section of top terminal with screws, for rigid conductors	1 - 35 mm^2
Installation, mounting	
Type of bottom connection for modular devices	biconnect
Type of top connection for modular devices	Screw terminal
360° mounting position possible	Yes
Safety	
Ingress Protection (IP) class	IP20
Grid distance	60 mm
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I^2t	3
Operating temperature	-25 - 70 °C
Power	
Power dissipation at IN	5.73 W
Connectivity	
Type of connection	Screw terminal
Top connection alignment for modular devices	Aligned terminal
Down connection alignment for modular devices	Aligned terminal
Dimensions	
Width	17.50 mm
Height	83 mm
Depth	70 mm
Endurance	
Electric endurance in number of cycles	4000
Sustainability	
RoHS conform	Yes