Product Datasheet
MBN150W



MBN150W

MCB 1P 6kA B-50A 1M

Technical Features

Electric current	
Rated current IN	50 A
Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2	6 kA
Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1	6 kA
Rated current at -15°C	62.79 A
Rated current at -10°C	61.37 A
Rated current at -5°C	59.95 A
Rated current at 0°C	58.53 A
Rated current at 5°C	57.11 A
Rated current at 10°C	55.69 A
Rated current at 15°C	54.26 A
Rated current at 20°C	52.84 A
Rated current at 25°C	51.42 A
Rated current at 30°C	50 A
Rated current at 35°C	49.24 A
Rated current at 40°C	48.48 A
Rated current at 45°C	47.72 A
Rated current at 50°C	46.96 A
Rated current at 55°C	46.2 A
Rated current at 60°C	45.44 A
Rated current at 65°C	44.68 A
Rated current at 70°C	43.92 A

Architecture	
Type of pole	1P
Curve	B

Capacity	
Number of modules	1

Main electrical attributes	
Rated short-circuit breaking capacity Icn AC according to IEC 60898-1	6 kA

Installation, mounting	
Nominal tightening torque top terminal	2.80 - 2.80 Nm
Nominal tightening torque down terminal	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	4000 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
Cross-section of top terminal with screws, for rigid conductors	1 - 35 mm^2

Installation, mounting	
Nominal tightening torque	2.80 - 2.80 Nm
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
Air humidity protection	For all climates
Operating temperature	-25 - 70 °C
Power	
Power dissipation at IN	4.7 W
Connectivity	
Top connection alignment for modular devices	Aligned terminal
Down connection alignment for modular devices	Aligned terminal
Type of connection	Screw terminal
Dimensions	
Height	83 mm
Width	17.5 mm
Depth	70 mm
Endurance	
Electric endurance in number of cycles	4000
Sustainability	
RoHS conform	Yes