



MBN250



MCB 2P 6kA B-50A 2M

Technical properties

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Number of protected poles	2
Number of poles	2 P
Curve	В
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	2
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	6 kA
Rated operational voltage Ue	400 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V
Electric current	
Rated current	50 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 ln
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 ln
Breaking capacity on 1 pole for IT 400V NF 60947-2	3 kA
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	6 kA

city Icu under 400V AC IEC 60947-2	10 k
Rated ultimate short-circuit breaking capa- city Icu under 415V AC IEC 60947-2	10 k
Electric current / temperature	
Rating current -25°C	68.8
Rating current -20°C	67.1
Rating current -15°C	65.4
Rating current -10°C	63.7
Rating current -5°C	62
Rating current 0°C	60.3
Rating current 5°C	58.6
Rating current 10°C	56.9
Rating current 15°C	55.1
Rating current 20°C	53.4
Rating current 25°C	51.7
Rating current 30°C	50
Rating current 35°C	49.3
Rating current 40°C	48.5
Rating current 45°C	47.8
Rating current 50°C	47
Rating current 55°C	46.3
Rating current 60°C	45.5
Rating current 65°C	44.8
Rating current 70°C	44
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	0.9
Correction factor of rating current for 4 and	
5 devices placed side-by-side	0.
Correction factor of rating current for 6 devices placed side-by-side	0.8
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 m
Height of installed product	83 mi
Width of installed product	35 m
Frequency	
Frequency	50 to 60 H
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Power loss per pole at In 4.9 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 719 per of Bottom Connection for modular devices Blconnect Connection Connection Connection of input and output with screws, for massive conductors 1/35 mm² Connection cross-section of access and exit with screws, for flexible conductor with screws 719 per of connection with screws 719 per of connection with screws 719 per of connection 719	Power	
Electric endurance in number of cycles 4000 Number of mechanical operations 20000 Installation, mounting Type of top connection for modular devices with screw 71ghtening torque 2,8Nm 72ge of Bottom Connection for modular devices Blconnect Connection Connection Connection of input and output with screws, for massive conductors 1/35 mm² 72ge of connection cross-section of access and exit with screws, for flexible conductor 1/25 mm² 72ge of connection with screws Standards Standards Standard text EN 60898-1 Safety Protection index IP IP20 ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Legree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Attitude 2000 m	Total power loss under IN	9.2 W
Electric endurance in number of cycles 4000 Number of mechanical operations 20000 Installation, mounting Type of top connection for modular devices with screw 77 Tightening torque 2,8Nm 77 Type of Bottom Connection for modular devices Blconnect 77 Blconnection 78 Blconnect 79 Blconnection 79 Blconnect	Power loss per pole at In	4.9 W
Installation, mounting Type of top connection for modular devices with screw 77 tightening torque 2,8Nm 17 type of Bottom Connection for modular devices Blconnect 17 type of Bottom Connection for modular 17 type of Bottom Connection for modular 17 type of Bottom Connection of input and 17 type of Bottom Connection of input and 17 type of Connection of access and exit 17 type of Connection with screws and Input and 17 type of Connection with screws Standards Standards Standard text EN 60898-1 Safety Protection index IP IP20 RoHS conform Yes 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	Endurance	
Installation, mounting Type of top connection for modular devices with screw Tightening torque 2,8Nm Type of Bottom Connection for modular devices Blconnect devices Blconnect Connection Connection Connection 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 screws Standards Standards Standard text EN 60898-1 Safety Protection index IP IP20 RoHS conform Yes No Operating temperature -2570 °C Congressing temperature -2570 °C Congressing temperature -2570 °C Congression feerings in the conduction of the conductio	Electric endurance in number of cycles	4000
Type of top connection for modular devices Tightening torque 2,8Nm Type of Bottom Connection for modular devices Connection 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 Type of connection Standards Standards Standards Standard text EN 60898-1 Safety Protection index IP RoHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 Class of energy limitation I²t Altitude 2000 m	Number of mechanical operations	20000
Tightening torque 2,8Nm Type of Bottom Connection for modular devices Blconnect Connection 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 Standards Standard text EN 60898-1 Safety Protection index IP IP20 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	Installation, mounting	
Type of Bottom Connection for modular devices Connection Connection Consection 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 Standards Standard text EN 60898-1 Safety Protection index IP IP20 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	Type of top connection for modular devices	with screw
Connection Connection Connection 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 Standards Standard text EN 60898-1 Safety Protection index IP IP20 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	Tightening torque	2,8Nm
Connection cross-section of input and output with screws, for massive conductors Connection cross section of access and exit with screws, for flexible conductor Type of connection With screw Standards Standard text EN 60898-1 Safety Protection index IP RoHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 Class of energy limitation I²t 3 Altitude Altitude	Type of Bottom Connection for modular devices	Blconnect
coutput 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 RoHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 Class of energy limitation I²t Altitude 1 / 35 mm² 1 / 25 mm² 2 in 60898-1 2 in 60898	Connection	
with screws, for flexible conductor 1 / 25 mm² Type of connection with screw Standards Standard text EN 60898-1 Safety Protection index IP IP20 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	Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm²
Standards Standard text EN 60898-1 Safety Protection index IP IP20 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	Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm²
Standard text EN 60898-1 Safety Protection index IP IP20 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	Type of connection	with screw
Protection index IP IP20 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	Standards	
Protection index IP IP20 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	Standard text	EN 60898-1
RoHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 Class of energy limitation I²t Altitude Yes No 2570 °C 2000 m	Safety	
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	Protection index IP	IP20
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	RoHS conform	Yes
Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	Halogen free	No
Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	Use conditions	
Class of energy limitation I²t 3 Altitude 2000 m	Operating temperature	-2570 °C
Altitude 2000 m	Degree of pollution according to IEC 60664 / IEC 60947-2	2
	Class of energy limitation I ² t	3
Air humidity protection for all climates	Altitude	2000 m
	Air humidity protection	for all climates

-25...80 °C

Storage/transport temperature