



MBN350A

MCB 3P 6kA B-50A 3M

Technical Features

Electric current

Rated current	50 A
Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2	10 kA
Rated current -15°C	61.4 A
Rated current -10°C	60.2 A
Rated current -5°C	59.1 A
Rated current at 0°C	57.9 A
Rated current 5°C	56.6 A
Rated current 10°C	55.4 A
Rated current 15°C	54.1 A
Rated current at 20°C	52.8 A
Rated current 25°C	51.4 A
Rated current 30°C	50 A
Rated current 35°C	48.5 A
Rated current at 40°C	47 A
Rated current at 45°C	45.4 A
Rated current at 50°C	43.7 A
Rated current 55°C	42 A
Rated current 60°C	40.2 A
Rated current 65°C	38.3 A
Rated current 70°C	36.3 A

Architecture

Type of pole	3P
Curve	B

Capacity

Number of modules	3
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Main electrical attributes

Rated short-circuit breaking capacity I _{cn} AC according to IEC 60898-1	6 kA
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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 U _e	230 - 400 V
Type voltage supply	AC
Rated insulation voltage U _i	500 V
Rated impulse withstand voltage U _{imp}	4000 V

Frequency

Frequency	50 - 60 Hz
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Connection

Cross-section of input and output with screws, for massive conductors	1 - 35 mm ²
Cross-section of input and output with screws, for flexible conductors	1 - 25 mm ²
Cross-section of input with screws, for flexible conductors	1 - 25 mm ²
Cross-section of input with screws, for massive conductors	1 - 35 mm ²
Cross-section flexible conductor	1 - 25 mm ²
Cross-section rigid conductor	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
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Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	2
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Class of energy limitation I ² t	3
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Air humidity protection	For all climates
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Operating temperature	-25 - 70 °C
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Power

Total power loss under IN	16.30 W
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Connectivity

Type of connection	Screw terminal
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Top connection alignment for modular devices	Aligned terminal
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Down connection alignment for modular devices	Aligned terminal
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Dimensions

Height	83 mm
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Width	52.50 mm
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Depth	70 mm
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Sustainability

RoHS conform	Yes
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