



MBN150

**MCB 1P 6kA B-50A 1M**

**Technical Features**

**Electric current**

Rated current	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 ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2	10 kA
Rated current -15°C	62.8 A
Rated current -10°C	61.4 A
Rated current -5°C	60 A
Rated current at 0°C	58.5 A
Rated current 5°C	57.1 A
Rated current 10°C	55.7 A
Rated current 15°C	54.3 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	49.2 A
Rated current at 40°C	48.5 A
Rated current at 45°C	47.7 A
Rated current at 50°C	47 A
Rated current 55°C	46.2 A
Rated current 60°C	45.4 A
Rated current 65°C	44.7 A
Rated current 70°C	43.9 A

**Architecture**

Type of pole	1P
Curve	B

**Capacity**

Number of modules	1
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**Main electrical attributes**

Rated short-circuit breaking capacity Icn 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 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
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**Connection**

Cross-section of input and output with screws, for massive conductors	1 - 35 mm <sup>2</sup>
Cross-section of input and output with screws, for flexible conductors	1 - 25 mm <sup>2</sup>
Cross-section of input with screws, for flexible conductors	1 - 25 mm <sup>2</sup>
Cross-section of input with screws, for massive conductors	1 - 35 mm <sup>2</sup>

**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

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**Safety**

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Ingress Protection (IP) class	IP20
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**Use conditions**

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

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**Power**

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Total power loss under IN	4.7 W
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**Connectivity**

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

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**Dimensions**

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Height	83 mm
Width	17,5 mm
Depth	70 mm

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**Sustainability**

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RoHS conform	Yes
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Illustrations | Drawings

