



MSN150

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

**Technical Features**

**Electric current**

Rated current	50 A
Rated short-circuit breaking capacity I <sub>cn</sub> under 230 V AC according to IEC 60898-1	6 kA
Rated current -15°C	65.4 A
Rated current -10°C	63.7 A
Rated current -5°C	62 A
Rated current at 0°C	60.3 A
Rated current 5°C	58.6 A
Rated current 10°C	56.9 A
Rated current 15°C	55.1 A
Rated current at 20°C	53.4 A
Rated current 25°C	51.7 A
Rated current 30°C	50 A
Rated current 35°C	49.3 A
Rated current at 40°C	48.5 A
Rated current at 45°C	47.8 A
Rated current at 50°C	47 A
Rated current 55°C	46.3 A
Rated current 60°C	45.5 A
Rated current 65°C	44.8 A
Rated current 70°C	44 A

**Architecture**

Type of pole	1P
Curve	C

**Capacity**

Number of modules	1
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**Main electrical attributes**

Rated short-circuit breaking capacity I <sub>cn</sub> 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 <sub>e</sub>	240 - 415 V
Type voltage supply	AC
Rated insulation voltage U <sub>i</sub>	500 V
Rated impulse withstand voltage U <sub>imp</sub>	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>
Cross-section flexible conductor	1 - 25 mm <sup>2</sup>
Cross-section rigid conductor	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**

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 <sup>2</sup> t	3
Air humidity protection	For all climates
Operating temperature	-25 - 70 °C

**Power**

Total power loss under IN	5.20 W
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**Connectivity**

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

**Dimensions**

Height	83 mm
Width	17.50 mm
Depth	70 mm

**Sustainability**

RoHS conform	Yes
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