



MSN150

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

### Technical properties

#### Electric current

Rated current	50 A
Rated short-circuit breaking capacity $I_{cn}$ 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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#### Installation, mounting

Nominal tightening torque top terminal	2,80 - 2,80 Nm
Nominal tightening torque down terminal	2,80 - 2,80 Nm
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

#### Main electrical attributes

### 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>

### Safety

Ingress Protection (IP) class	IP20
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### 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 I <sub>N</sub>	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