



MDN150P

**MCB 1P 6kA D-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	62,64 A
Rated current -10°C	61,37 A
Rated current -5°C	60,15 A
Rated current at 0°C	58,92 A
Rated current 5°C	57,69 A
Rated current 10°C	56,47 A
Rated current 15°C	55,26 A
Rated current at 20°C	54,05 A
Rated current 25°C	52,84 A
Rated current 30°C	50 A
Rated current 35°C	49,40 A
Rated current at 40°C	48,22 A
Rated current at 45°C	46,72 A
Rated current at 50°C	46,96 A
Rated current 55°C	42,77 A
Rated current 60°C	40,33 A
Rated current 65°C	37,57 A
Rated current 70°C	34,49 A

**Architecture**

Type of pole	1P
Curve	D

**Capacity**

Number of modules	1
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**Main electrical attributes**

Rated short-circuit breaking capacity $I_{cn}$ AC according to IEC 60898-1	6 kA
Nominal tightening torque top terminal	2,80-2,80 Nm
Nominal tightening torque down terminal	2,80-2,80 Nm

**Voltage**

Rated operational voltage $U_e$	240-415 V
Type voltage supply	AC
Rated insulation voltage $U_i$	500 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

**Safety**

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

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Air humidity protection	95%/55°C
Operating temperature	-25-70 °C

**Power**

Total power loss under IN	4,70 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	84,60 mm
Width	17,70 mm
Depth	70 mm