



MBN450

**MCB 4P 6kA B-50A 4M**

**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	60.9 A
Rated current -10°C	59.8 A
Rated current -5°C	58.6 A
Rated current at 0°C	57.5 A
Rated current 5°C	56.3 A
Rated current 10°C	55.1 A
Rated current 15°C	53.9 A
Rated current at 20°C	52.6 A
Rated current 25°C	51.3 A
Rated current 30°C	50 A
Rated current 35°C	48.5 A
Rated current at 40°C	46.9 A
Rated current at 45°C	45.3 A
Rated current at 50°C	43.6 A
Rated current 55°C	41.9 A
Rated current 60°C	40 A
Rated current 65°C	38.1 A
Rated current 70°C	36.1 A

**Architecture**

Type of pole	4P
Curve	B

**Capacity**

Number of modules	4
-------------------	---

**Main electrical attributes**

Rated short-circuit breaking capacity Icn AC according to IEC 60898-1	6 kA
---	------

**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	400 - 400 V
Type voltage supply	AC
Rated insulation voltage Ui	500 V
Rated impulse withstand voltage Uimp	4000 V

**Frequency**

Frequency	50 - 60 Hz
-----------	------------

**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
-------------------------------	------

**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	20.3 W
---------------------------	--------

**Connectivity**

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

**Dimensions**

Height	83 mm
Width	70 mm
Depth	70 mm

**Sustainability**

RoHS conform	Yes
--------------	-----

**Illustrations | Drawings**

