



MCN450

MCB 4P 6kA C-50A 4M

Technical Features

Electric current

| | |
|---|--------|
| Rated current | 50 A |
| Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2 | 10 kA |
| Rated current -15°C | 61.4 A |
| Rated current -10°C | 60.2 A |
| Rated current -5°C | 59.1 A |
| Rated current at 0°C | 57.9 A |
| Rated current 5°C | 56.6 A |
| Rated current 10°C | 55.4 A |
| Rated current 15°C | 54.1 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 | 48.5 A |
| Rated current at 40°C | 47 A |
| Rated current at 45°C | 45.4 A |
| Rated current at 50°C | 43.7 A |
| Rated current 55°C | 42 A |
| Rated current 60°C | 40.2 A |
| Rated current 65°C | 38.3 A |
| Rated current 70°C | 36.3 A |

Architecture

| | |
|--------------|----|
| Type of pole | 4P |
| Curve | C |

Capacity

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

Main electrical attributes

| | |
|---|------|
| Rated short-circuit breaking capacity I _{cn} 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 U _e | 415 - 415 V |
| Type voltage supply | AC |
| Rated insulation voltage U _i | 500 V |
| Rated impulse withstand voltage U _{imp} | 4000 V |

Frequency

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

Connection

| | |
|--|------------------------|
| Cross-section of input and output with screws, for massive conductors | 1 - 35 mm ² |
| Cross-section of input and output with screws, for flexible conductors | 1 - 25 mm ² |
| Cross-section of input with screws, for flexible conductors | 1 - 25 mm ² |
| Cross-section of input with screws, for massive conductors | 1 - 35 mm ² |
| Cross-section flexible conductor | 1 - 25 mm ² |
| Cross-section rigid conductor | 1 - 35 mm ² |

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 ² t | 3 |
| Air humidity protection | For all climates |
| Operating temperature | -25 - 70 °C |

Power

| | |
|---------------------------|---------|
| Total power loss under IN | 19.75 W |
|---------------------------|---------|

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 | 70 mm |
| Depth | 70 mm |

Sustainability

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

Illustrations | Drawings

