



HMB280



#### MCB 2P 15kA B-80A 3M

# **Technical properties**

| Α. |     |     | cti |     |
|----|-----|-----|-----|-----|
| AI | rcn | пте | CTL | ıre |

| Type of pole | 2P |
|--------------|----|
| Curve        | В  |

## Voltage

| Rated operational voltage Ue         | 415 - 415 V |
|--------------------------------------|-------------|
| Type voltage supply                  | AC          |
| Rated insulation voltage Ui          | 500 V       |
| Rated impulse withstand voltage Uimp | 6,000 V     |

## Frequency

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

## Installation, mounting

| Nominal tightening torque                  | 3.5 - 5.0 Nm   |
|--|----------------|
| Type of top connection for modular devices | Screw terminal |
| Type of bottom connection for modular      |                |
| devices                                    | Screw terminal |

#### Electric current

| Electric current  |         |
|---|---------|
| Rated current   | 80 A    |
| Rated service breaking capacity Ics AC according to IEC 60898-1                   | 7.50 kA |
| Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1 | 15 kA   |
| Rated ultimate short-circuit breaking capacity Icu under 230 V AC IEC 60947-2     | 15 kA   |
| Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2     | 15 kA   |
| Rated current at -20°C  | 112 A   |
| Rated current -15°C   | 109 A   |
| Rated current -10°C   | 106 A   |
| Rated current -5°C  | 102 A   |
| Rated current at 0°C  | 99.20 A |
| Rated current 5°C   | 96 A    |
| Rated current 10°C  | 92.80 A |
| Rated current 15°C  | 89.60 A |
| Rated current at 20°C   | 86.40 A |
| Rated current 25°C  | 83.20 A |
| Rated current 30°C  | 80 A    |
| Rated current 35°C  | 77.60 A |

| Rated current at 40°C  | 75.10 A          |
|--|------------------|
| Rated current at 45°C  | 72.60 A          |
| Rated current at 50°C  | 70 A             |
| Rated current 55°C   | 67.20 A          |
| Rated current 60°C   | 64.30 A          |
| Main electrical attributes   |                  |
| Rated short-circuit breaking capacity Icn AC according to IEC 60898-1  | 15 kA            |
| Nominal tightening torque down terminal                                | 3.60 - 3.60 Nm   |
| Nominal tightening torque top terminal                                 | 3.60 - 3.60 Nm   |
| Power  |                  |
| Total power loss under IN  | 11.98 W          |
| Endurance  |                  |
| Electric endurance in number of cycles                                 | 4,000            |
| Number of mechanical operations  | 20,000           |
| Connection   |                  |
| Cross-section of input and output with screws, for massive conductors  | 1 - 70 mm²       |
| Cross-section of input and output with screws, for flexible conductors | 1 - 50 mm²       |
| Use conditions   |                  |
| Degree of pollution according to IEC 60664 / IEC 60947-2               | 3                |
| Air humidity protection  | For all climates |
| Capacity   |                  |
| Number of modules  | 3                |
| Connectivity   |                  |
| Top connection alignment for modular devices                           | Aligned terminal |
| Down connection alignment for modular devices                          | Aligned terminal |
| Dimensions   |                  |
| Height   | 90 mm            |
| Width  | 53 mm            |
| Depth  | 70 mm            |