



MSN106

**MCB 1P 6kA C-6A 1M**

**Technical properties**

**Architecture**

|                  |                 |
|------------------|-----------------|
| Neutral position | without neutral |
| Number of poles  | 1 P             |
| Type of pole     | 1 P             |
| Curve            | C               |

**Functions**

|                                  |    |
|----------------------------------|----|
| Concurrently switching N-neutral | No |
|----------------------------------|----|

**Configuration**

|                   |   |
|-------------------|---|
| Number of modules | 1 |
|-------------------|---|

**Connectivity**

|   |                  |
|---|------------------|
| Top connection alignment for modular devices    | Aligned terminal |
| Bottom connection alignment for modular devices | Aligned terminal |

**Main electrical features**

|                              |             |
|------------------------------|-------------|
| Rated operational voltage Ue | 240 / 415 V |
| Type of supply voltage       | AC          |

**Voltage**

|                                 |        |
|---------------------------------|--------|
| Rated insulation voltage        | 500 V  |
| Max operating voltage           | 415 V  |
| Rated impulse withstand voltage | 4000 V |

**Electric current**

|   |                |
|---|----------------|
| Rated current   | 6 A            |
| Rated service breaking capacity Ics AC according IEC 60898-1                  | 6 kA           |
| min/maxi threshold value of the AC thermal operation                          | 1.13 / 1.45 In |
| Magnetic regulating current   | 5 / 10 In      |
| Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1  | 6 kA           |
| Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1 | 6 kA           |

**Electric current / temperature**

|                      |       |
|----------------------|-------|
| Rating current -25°C | 7.8 A |
| Rating current -20°C | 7.7 A |
| Rating current -15°C | 7.5 A |

|                      |       |
|----------------------|-------|
| Rating current -10°C | 7.4 A |
| Rating current -5°C  | 7.2 A |
| Rating current 0°C   | 7.1 A |
| Rating current 5°C   | 6.9 A |
| Rating current 10°C  | 6.7 A |
| Rating current 15°C  | 6.6 A |
| Rating current 20°C  | 6.4 A |
| Rating current 25°C  | 6.2 A |
| Rating current 30°C  | 6 A   |
| Rating current 35°C  | 5.8 A |
| Rating current 40°C  | 5.6 A |
| Rating current 45°C  | 5.4 A |
| Rating current 50°C  | 5.2 A |
| Rating current 55°C  | 5 A   |
| Rating current 60°C  | 4.7 A |
| Rating current 65°C  | 4.5 A |
| Rating current 70°C  | 4.2 A |

#### Current correction factors

|   |      |
|---|------|
| Correction factor of rating current for 2 devices placed side-by-side       | 1    |
| Correction factor of rating current for 3 devices placed side-by-side       | 0.95 |
| Correction factor of rating current for 4 and 5 devices placed side-by-side | 0.9  |
| Correction factor of rating current for 6 devices placed side-by-side       | 0.85 |

#### Dimensions

|                             |         |
|-----------------------------|---------|
| Depth of installed product  | 70 mm   |
| Height of installed product | 83 mm   |
| Width of installed product  | 17.5 mm |

#### Frequency

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

#### Power

|   |        |
|---|--------|
| Maximum power loss per pole according to the product standard | 3 W    |
| Total power loss under IN                                     | 1.31 W |
| Power loss per pole at In                                     | 1.31 W |

#### Endurance

|  |       |
|--|-------|
| Electric endurance in number of cycles | 4000  |
| Number of mechanical operations        | 20000 |

#### Installation, mounting

|  |            |
|--|------------|
| Type of top connection for modular devices   | with screw |
| Tightening torque                            | 2,8Nm      |
| Type of bottom rail clip for modular devices | plastic    |

|  |                              |
|--|------------------------------|
| Type of Bottom Connection for modular devices                                | Blconnect                    |
| Top removability for modular devices   | No                           |
| Bottom removability for modular devices                                      | Yes                          |
| <b>Connection</b>  |                              |
| Connection cross-section at output with screw, for flexible conductor        | 1 / 25 mm <sup>2</sup>       |
| Connection cross-section at output with screw, for massive conductor         | 1 / 35 mm <sup>2</sup>       |
| Connection cross-section for rigid conductor, upstream terminals with screws | 1 / 35 mm <sup>2</sup>       |
| Connection cross-section of the access with screws, with flexible conductor  | 1 / 25 mm <sup>2</sup>       |
| Downstream cage clamp delivery status  | opened                       |
| Upstream cage clamp delivery status  | opened                       |
| <b>Equipment</b>   |                              |
| Can be accessorized  | Yes                          |
| With transparent product label holder  | Yes                          |
| <b>Standards</b>   |                              |
| Standard text  | IEC 60898-1 ; AS/NZS 60898-1 |
| European directive WEEE  | not concerned                |
| <b>Safety</b>  |                              |
| REACH conform  | Yes                          |
| RoHS conform   | Yes                          |
| Halogen free   | No                           |
| <b>Use conditions</b>  |                              |
| Operating temperature  | -25...70 °C                  |
| Degree of pollution according to IEC 60664 / IEC 60947-2                     | 2                            |
| Class of energy limitation I <sup>2</sup> t                                  | 3                            |
| Altitude   | 2000 m                       |
| Storage/transport temperature  | -25...80 °C                  |
| <b>temperatur</b>  |                              |
| Temperature of calibration   | 30 °C                        |