

**MCB 2P 10kA C-20A 2M**

Technische Merkmale

**Architecture**

|                           |     |
|---------------------------|-----|
| Number of protected poles | 2   |
| Number of poles           | 2 P |
| Type of pole              | 2 P |
| Curve                     | C   |

**Connectivity**

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

**Main electrical features**

|  |           |
|--|-----------|
| Frequency  | 50/60 Hz  |
| Rated short circuit breaking capacity $I_{cn}$ AC according IEC60898-1 | 10 kA     |
| Type of supply voltage   | AC        |
| Rated operational voltage $U_e$  | 230/400 V |

**Voltage**

|                                 |        |
|---------------------------------|--------|
| Rated insulation voltage        | 500 V  |
| Rated impulse withstand voltage | 4000 V |

**Electric current**

|   |              |
|---|--------------|
| Rated short circuit breaking capacity $I_{cn}$ under 400V AC according IEC60898-1 | 10 kA        |
| Rated service breaking capacity $I_{cs}$ AC according IEC 60898-1                 | 7,5 kA       |
| Breaking capacity on 1 pole with 400 V NF 60947-2                                 | 3 kA         |
| Rated ultimate short-circuit breaking capacity $I_{cu}$ under 230V AC IEC 60947-2 | 10 kA        |
| Rated ultimate short-circuit breaking capacity $I_{cu}$ under 415V AC IEC 60947-2 | 10 kA        |
| Magnetic regulating current at 40° C  | 5/10 In      |
| min/maxi threshold value of the DC magnetic operation                             | 7/15 In      |
| min/maxi threshold value of the AC thermal operation                              | 1,13/1,45 In |
| min/maxi threshold value of the DC thermal operation                              | 1,13/1,45 In |

**Electric current / temperature**

|                      |        |
|----------------------|--------|
| Rating current -15°C | 23,2 A |
| Rating current -20°C | 23,5 A |
| Rating current 0°C   | 22,2 A |
| Rating current 10°C  | 21,5 A |
| Rating current -10°C | 22,8 A |
| Rating current 15°C  | 21,1 A |
| Rating current 20°C  | 20,7 A |
| Rating current 25°C  | 20,4 A |
| Rating current -25°C | 23,8 A |
| Rating current 30°C  | 20 A   |
| Rating current 35°C  | 19,6 A |
| Rating current 40°C  | 19,2 A |
| Rating current 45°C  | 18,8 A |
| Rating current 5°C   | 21,8 A |
| Rating current -5°C  | 22,5 A |
| Rating current 50°C  | 18,4 A |
| Rating current 55°C  | 18 A   |
| Rating current 60°C  | 17,6 A |
| Rating current 65°C  | 17,2 A |
| Rating current 70°C  | 16,8 A |

**Current correction factors**

|   |      |
|---|------|
| Correction factor of magnetic tripping with 100 Hz                          | 1,1  |
| Correction factor of magnetic tripping with 200 Hz                          | 1,2  |
| Correction factor of magnetic tripping with 400 Hz                          | 1,5  |
| Correction factor of magnetic tripping with 60 Hz                           | 1    |
| 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 |

**Power**

|                           |        |
|---------------------------|--------|
| Power loss per pole at In | 2,78 W |
| Total power loss under IN | 5,5 W  |

**Endurance**

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

**Dimensions**

|                             |       |
|-----------------------------|-------|
| Depth of installed product  | 70 mm |
| Height of installed product | 83 mm |
| Width of installed product  | 35 mm |

### Installation, mounting

|   |            |
|---|------------|
| Type of top connection for modular devices    | with screw |
| Tightening torque                             | 2,8Nm      |
| Type of bottom rail clip for modular devices  | metallic   |
| Type of top rail clip for modular devices     | NA         |
| Type of Bottom Connection for modular devices | Blconnect  |
| Bottom removability for modular devices       | no         |
| Top removability for modular devices          | no         |

### Connection

|  |                       |
|--|-----------------------|
| Connection cross-sect. rigid cable   | 1 / 35mm <sup>2</sup> |
| Connection cross-sect. flexible conductor  | 1 / 25mm <sup>2</sup> |
| Type of connection   | with screw            |
| Connection cross section of access and exit with screws, for flexible conductor  | 1/25 mm <sup>2</sup>  |
| Connection cross-section of input and output with screws, for massive conductors | 1/35 mm <sup>2</sup>  |

### Standards

|                         |            |
|-------------------------|------------|
| Standard text           | EN 60898-1 |
| European directive WEEE | concerned  |

### Safety

|                     |      |
|---------------------|------|
| Protection index IP | IP20 |
|---------------------|------|

### Use conditions

|  |                  |
|--|------------------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2                |
| Operating temperature                                    | -25 ... 70 °C    |
| Class of energy limitation I <sup>2</sup> t              | 3                |
| Altitude   | 2000 m           |
| Storage temperature                                      | -25 to 80 °C     |
| Air humidity protection                                  | for all climates |
| Storage/transport temperature                            | -25 ... 80 °C    |