



MFN710A

### MCB 1P+N 3kA C-10A 1M

#### Technical Features

##### Architecture

|              |      |
|--------------|------|
| Type of pole | 1P+N |
| Curve        | C    |

##### Electric current

|   |               |
|---|---------------|
| Rated current   | 10 A          |
| Rated service breaking capacity Ics AC according to IEC 60898-1                   | 3 kA          |
| Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1 | 3 kA          |
| Min./max. threshold value of the AC thermal operation                             | 1.13 - 1.45 A |
| Rated current -25°C   | 12.90 A       |
| Rated current at -20°C  | 12.70 A       |
| Rated current -15°C   | 12.40 A       |
| Rated current -10°C   | 12.20 A       |
| Rated current -5°C  | 11.90 A       |
| Rated current at 0°C  | 11.70 A       |
| Rated current 5°C   | 11.40 A       |
| Rated current 10°C  | 11.10 A       |
| Rated current 15°C  | 10.90 A       |
| Rated current at 20°C   | 10.60 A       |
| Rated current 25°C  | 10.30 A       |
| Rated current 30°C  | 10 A          |
| Rated current 35°C  | 9.70 A        |
| Rated current at 40°C   | 9.40 A        |
| Rated current at 45°C   | 9.10 A        |
| Rated current at 50°C   | 8.70 A        |
| Rated current 55°C  | 8.40 A        |
| Rated current 60°C  | 8 A           |
| Rated current 65°C  | 7.60 A        |
| Rated current 70°C  | 7.20 A        |
| 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       | 0.90          |
| Correction factor of rating current for 6 devices placed side by side             | 0.85          |

##### Main electrical attributes

|   |      |
|---|------|
| Rated short-circuit breaking capacity Icn AC according to IEC 60898-1 | 3 kA |
|---|------|

##### Installation, mounting

|   |                |
|---|----------------|
| Nominal tightening torque down terminal | 1.90 - 1.90 Nm |
| Nominal tightening torque top terminal  | 1.90 - 1.90 Nm |

##### Voltage

|   |             |
|---|-------------|
| Rated operational voltage Ue                  | 230 - 240 V |
| Type voltage supply                           | AC          |
| Rated insulation voltage Ui                   | 500 V       |
| Rated impulse withstand voltage Uimp          | 4000 V      |
| Max. operating voltage                        | 253 V       |
| Overvoltage category according to IEC 60947-1 | 3           |

##### Frequency

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

##### Capacity

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

---

**Installation, mounting**

|   |                |
|---|----------------|
| Type of top connection for modular devices    | Screw terminal |
| Type of bottom connection for modular devices | Screw terminal |
| Nominal tightening torque                     | 1.90 - 1.90 Nm |

**Connection**

|   |                        |
|---|------------------------|
| Cross-section of input with screws, for massive conductors  | 1 - 25 mm <sup>2</sup> |
| Cross-section of input with screws, for flexible conductors | 1 - 16 mm <sup>2</sup> |

**Power**

|                           |        |
|---------------------------|--------|
| Total power loss under IN | 2.60 W |
|---------------------------|--------|

**Use conditions**

|                       |             |
|-----------------------|-------------|
| Operating temperature | -25 - 70 °C |
| Max. Altitude         | 2000 m      |

**Endurance**

|  |       |
|--|-------|
| Electric endurance in number of cycles | 1000  |
| Number of mechanical operations        | 20000 |

**Safety**

|                               |      |
|-------------------------------|------|
| Ingress Protection (IP) class | IP20 |
|-------------------------------|------|

**Connectivity**

|   |                  |
|---|------------------|
| Type of connection                            | Screw terminal   |
| Top connection alignment for modular devices  | Shifted terminal |
| Down connection alignment for modular devices | Shifted terminal |

**Dimensions**

|        |          |
|--------|----------|
| Height | 84.70 mm |
| Width  | 17.50 mm |
| Depth  | 70 mm    |

**Sustainability**

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