

# Product Datasheet

## MLN706A



MLN706A

### MCB 1P+N 6kA C-6A 1M

#### Technical Features

##### Architecture

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

##### Electric current

|                                                                                   |               |
|-----------------------------------------------------------------------------------|---------------|
| Rated current                                                                     | 6 A           |
| Rated service breaking capacity Ics AC according to IEC 60898-1                   | 6 kA          |
| Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1 | 6 kA          |
| Min./max. threshold value of the AC thermal operation                             | 1.13 - 1.45 A |
| Min./max. threshold value of the DC thermal operation                             | 1.13 - 1.45 A |
| Rated current -25°C                                                               | 7.80 A        |
| Rated current at -20°C                                                            | 7.60 A        |
| Rated current -15°C                                                               | 7.50 A        |
| Rated current -10°C                                                               | 7.30 A        |
| Rated current -5°C                                                                | 7.20 A        |
| Rated current at 0°C                                                              | 7 A           |
| Rated current 5°C                                                                 | 6.90 A        |
| Rated current 10°C                                                                | 6.70 A        |
| Rated current 15°C                                                                | 6.50 A        |
| Rated current at 20°C                                                             | 6.40 A        |
| Rated current 25°C                                                                | 6.20 A        |
| Rated current 30°C                                                                | 6 A           |
| Rated current 35°C                                                                | 5.80 A        |
| Rated current at 40°C                                                             | 5.60 A        |
| Rated current at 45°C                                                             | 5.40 A        |
| Rated current at 50°C                                                             | 5.20 A        |
| Rated current 55°C                                                                | 5 A           |
| Rated current 60°C                                                                | 4.80 A        |
| Rated current 65°C                                                                | 4.50 A        |
| Rated current 70°C                                                                | 4.30 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 | 6 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 |
|-------------------|---|

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### 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 | 1.30 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 |
|--------------|-----|