



MDN125P

### MCB 1P 6kA D-25A 1M

#### Technical Features

##### Electric current

|                                                                                               |         |
|-----------------------------------------------------------------------------------------------|---------|
| Rated current                                                                                 | 25 A    |
| Rated short-circuit breaking capacity I <sub>cn</sub> under 230 V AC according to IEC 60898-1 | 6 kA    |
| Rated current -15°C                                                                           | 31.35 A |
| Rated current -10°C                                                                           | 30.64 A |
| Rated current -5°C                                                                            | 29.94 A |
| Rated current at 0°C                                                                          | 29.23 A |
| Rated current 5°C                                                                             | 28.53 A |
| Rated current 10°C                                                                            | 27.82 A |
| Rated current 15°C                                                                            | 27.12 A |
| Rated current at 20°C                                                                         | 26.41 A |
| Rated current 25°C                                                                            | 25.71 A |
| Rated current 30°C                                                                            | 25 A    |
| Rated current 35°C                                                                            | 24.29 A |
| Rated current at 40°C                                                                         | 23.59 A |
| Rated current at 45°C                                                                         | 22.88 A |
| Rated current at 50°C                                                                         | 22.18 A |
| Rated current 55°C                                                                            | 21.47 A |
| Rated current 60°C                                                                            | 20.77 A |
| Rated current 65°C                                                                            | 20.06 A |
| Rated current 70°C                                                                            | 19.36 A |

##### Architecture

|              |    |
|--------------|----|
| Type of pole | 1P |
| Curve        | D  |

##### Capacity

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

##### Main electrical attributes

|                                                                                   |      |
|-----------------------------------------------------------------------------------|------|
| Rated short-circuit breaking capacity I <sub>cn</sub> AC according to IEC 60898-1 | 6 kA |
|-----------------------------------------------------------------------------------|------|

##### Installation, mounting

|                                         |              |
|-----------------------------------------|--------------|
| Nominal tightening torque top terminal  | 2.80-2.80 Nm |
| Nominal tightening torque down terminal | 2.80-2.80 Nm |

##### Voltage

|                                                  |             |
|--------------------------------------------------|-------------|
| Rated operational voltage U <sub>e</sub>         | 240 - 415 V |
| Type voltage supply                              | AC          |
| Rated insulation voltage U <sub>i</sub>          | 500 V       |
| Rated impulse withstand voltage U <sub>imp</sub> | 4000 V      |

##### Frequency

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

##### Connection

|                                                                        |                      |
|------------------------------------------------------------------------|----------------------|
| Cross-section of input and output with screws, for massive conductors  | 1-35 mm <sup>2</sup> |
| Cross-section of input and output with screws, for flexible conductors | 1-25 mm <sup>2</sup> |
| Cross-section of input with screws, for flexible conductors            | 1-25 mm <sup>2</sup> |
| Cross-section of input with screws, for massive conductors             | 1-35 mm <sup>2</sup> |

##### Installation, mounting

|                                               |                |
|-----------------------------------------------|----------------|
| Nominal tightening torque                     | 2.80 - 2.80 Nm |
| Type of bottom connection for modular devices | biconnect      |
| Type of top connection for modular devices    | Screw terminal |
| 360° mounting position possible               | Yes            |

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**Safety**

|                               |       |
|-------------------------------|-------|
| Ingress Protection (IP) class | IP20  |
| Grid distance                 | 60 mm |

**Use conditions**

|                                                          |           |
|----------------------------------------------------------|-----------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2         |
| Air humidity protection                                  | 95%/55°C  |
| Operating temperature                                    | -25-70 °C |

**Power**

|                           |        |
|---------------------------|--------|
| Total power loss under IN | 2.95 W |
|---------------------------|--------|

**Connectivity**

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

**Dimensions**

|        |          |
|--------|----------|
| Height | 84.60 mm |
| Width  | 17.70 mm |
| Depth  | 70 mm    |

**Sustainability**

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