



NBN410A

### MCB 4P 10kA/15kA B-10A 4M

#### Technical Features

##### Electric current

|                                                                               |         |
|-------------------------------------------------------------------------------|---------|
| Rated current                                                                 | 10 A    |
| Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2   | 15 kA   |
| Rated ultimate short-circuit breaking capacity Icu under 230 V AC IEC 60947-2 | 30 kA   |
| Rated current -25°C                                                           | 12.73 A |
| Rated current at -20°C                                                        | 12.51 A |
| Rated current -15°C                                                           | 12.28 A |
| Rated current -10°C                                                           | 12.05 A |
| Rated current -5°C                                                            | 11.81 A |
| Rated current at 0°C                                                          | 11.57 A |
| Rated current 5°C                                                             | 11.32 A |
| Rated current 10°C                                                            | 11.07 A |
| Rated current 15°C                                                            | 10.81 A |
| Rated current at 20°C                                                         | 10.55 A |
| Rated current 25°C                                                            | 10.28 A |
| Rated current 30°C                                                            | 10 A    |
| Rated current 35°C                                                            | 9.61 A  |
| Rated current at 40°C                                                         | 9.21 A  |
| Rated current at 45°C                                                         | 8.78 A  |
| Rated current at 50°C                                                         | 8.33 A  |
| Rated current 55°C                                                            | 7.86 A  |
| Rated current 60°C                                                            | 7.36 A  |
| Rated current 65°C                                                            | 6.82 A  |
| Rated current 70°C                                                            | 6.24 A  |

##### Architecture

|              |    |
|--------------|----|
| Type of pole | 4P |
| Curve        | B  |

##### Capacity

|                   |   |
|-------------------|---|
| Number of modules | 4 |
|-------------------|---|

##### Main electrical attributes

|                                                                       |       |
|-----------------------------------------------------------------------|-------|
| Rated short-circuit breaking capacity Icn AC according to IEC 60898-1 | 10 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 Ue         | 400 - 400 V |
| Type voltage supply                  | AC          |
| Rated insulation voltage Ui          | 500 V       |
| Rated impulse withstand voltage Uimp | 6000 V      |

##### Frequency

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

##### Connection

|                                                                        |            |
|------------------------------------------------------------------------|------------|
| Cross-section of input and output with screws, for massive conductors  | 1 - 35 mm² |
| Cross-section of input and output with screws, for flexible conductors | 1 - 25 mm² |
| Cross-section of input with screws, for flexible conductors            | 1 - 25 mm² |
| Cross-section of input with screws, for massive conductors             | 1 - 35 mm² |

##### 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 |
|-------------------------------|------|

**Use conditions**

|                                                          |             |
|----------------------------------------------------------|-------------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2           |
| Class of energy limitation I <sup>2</sup> t              | 3           |
| Operating temperature                                    | -25 - 70 °C |

**Power**

|                           |        |
|---------------------------|--------|
| Total power loss under IN | 8.29 W |
|---------------------------|--------|

**Endurance**

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

**Connectivity**

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

**Dimensions**

|        |       |
|--------|-------|
| Height | 83 mm |
| Width  | 70 mm |
| Depth  | 70 mm |

**Sustainability**

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