



NBN120

### MCB 1P 10kA B-20A 1M

#### Technical Features

##### Electric current

|   |         |
|---|---------|
| Rated current   | 20 A    |
| Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2       | 7.50 kA |
| Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1 | 10 kA   |
| Rated ultimate short-circuit breaking capacity Icu under 230 V AC IEC 60947-2     | 15 kA   |
| Rated current -25°C   | 25.08 A |
| Rated current at -20°C  | 24.66 A |
| Rated current -15°C   | 24.24 A |
| Rated current -10°C   | 23.80 A |
| Rated current -5°C  | 23.36 A |
| Rated current at 0°C  | 22.91 A |
| Rated current 5°C   | 22.45 A |
| Rated current 10°C  | 21.98 A |
| Rated current 15°C  | 21.51 A |
| Rated current at 20°C   | 21.02 A |
| Rated current 25°C  | 20.51 A |
| Rated current 30°C  | 20 A    |
| Rated current 35°C  | 19.47 A |
| Rated current at 40°C   | 18.93 A |
| Rated current at 45°C   | 18.37 A |
| Rated current at 50°C   | 17.80 A |
| Rated current 55°C  | 17.20 A |
| Rated current 60°C  | 16.58 A |
| Rated current 65°C  | 15.94 A |
| Rated current 70°C  | 15.28 A |

##### Architecture

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

##### Capacity

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

##### 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         | 230 - 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 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> |
| Cross-section flexible conductor                                       | 1 - 25 mm <sup>2</sup> |
| Cross-section rigid conductor  | 1 - 35 mm <sup>2</sup> |

|   |                |
|---|----------------|
| <b>Installation, mounting</b>                 |                |
| 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 |

|                               |       |
|-------------------------------|-------|
| <b>Safety</b>                 |       |
| Ingress Protection (IP) class | IP20  |
| Grid distance                 | 60 mm |

|  |                  |
|--|------------------|
| <b>Use conditions</b>                                    |                  |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2                |
| Class of energy limitation I <sup>2</sup> t              | 3                |
| Air humidity protection                                  | For all climates |
| Operating temperature                                    | -25 - 70 °C      |

|                           |        |
|---------------------------|--------|
| <b>Power</b>              |        |
| Total power loss under IN | 2.56 W |

|  |       |
|--|-------|
| <b>Endurance</b>                       |       |
| Electric endurance in number of cycles | 4000  |
| Number of mechanical operations        | 20000 |

|   |                  |
|---|------------------|
| <b>Connectivity</b>                           |                  |
| Type of connection                            | Screw terminal   |
| Top connection alignment for modular devices  | Aligned terminal |
| Down connection alignment for modular devices | Aligned terminal |

|                   |          |
|-------------------|----------|
| <b>Dimensions</b> |          |
| Height            | 83 mm    |
| Width             | 17.50 mm |
| Depth             | 70 mm    |

Illustrations | Drawings

