



NBN116A

**MCB 1P 10kA/15kA B-16A 1M**

**Technical Features**

**Electric current**

|   |         |
|---|---------|
| Rated current   | 16 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   | 20.49 A |
| Rated current at -20°C  | 20.12 A |
| Rated current -15°C   | 19.75 A |
| Rated current -10°C   | 19.37 A |
| Rated current -5°C  | 18.98 A |
| Rated current at 0°C  | 18.58 A |
| Rated current 5°C   | 18.18 A |
| Rated current 10°C  | 17.76 A |
| Rated current 15°C  | 17.34 A |
| Rated current at 20°C   | 16.90 A |
| Rated current 25°C  | 16.46 A |
| Rated current 30°C  | 16 A    |
| Rated current 35°C  | 15.53 A |
| Rated current at 40°C   | 15.04 A |
| Rated current at 45°C   | 14.54 A |
| Rated current at 50°C   | 14.02 A |
| Rated current 55°C  | 13.48 A |
| Rated current 60°C  | 12.91 A |
| Rated current 65°C  | 12.32 A |
| Rated current 70°C  | 11.70 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> |

**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 |

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**Installation, mounting**

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|                                 |     |
|---------------------------------|-----|
| 360° mounting position possible | Yes |
|---------------------------------|-----|

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**Safety**

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|                               |      |
|-------------------------------|------|
| Ingress Protection (IP) class | IP20 |
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**Use conditions**

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|  |   |
|--|---|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
|--|---|

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|   |   |
|---|---|
| Class of energy limitation I <sup>2</sup> t | 3 |
|---|---|

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|                       |             |
|-----------------------|-------------|
| Operating temperature | -25 - 70 °C |
|-----------------------|-------------|

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**Power**

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|                           |        |
|---------------------------|--------|
| Total power loss under IN | 2.62 W |
|---------------------------|--------|

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**Endurance**

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

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**Connectivity**

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|                    |                |
|--------------------|----------------|
| Type of connection | Screw terminal |
|--------------------|----------------|

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|  |                  |
|--|------------------|
| Top connection alignment for modular devices | Aligned terminal |
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|   |                  |
|---|------------------|
| Down connection alignment for modular devices | Aligned terminal |
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**Dimensions**

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|        |       |
|--------|-------|
| Height | 83 mm |
|--------|-------|

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|       |          |
|-------|----------|
| Width | 17.50 mm |
|-------|----------|

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|       |       |
|-------|-------|
| Depth | 70 mm |
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**Sustainability**

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