



NBN425A

### MCB 4P 10kA/15kA B-25A 4M

#### Technical Features

##### Electric current

|                                                                               |         |
|-------------------------------------------------------------------------------|---------|
| Rated current                                                                 | 25 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                                                           | 32.08 A |
| Rated current at -20°C                                                        | 31.44 A |
| Rated current -15°C                                                           | 30.79 A |
| Rated current -10°C                                                           | 30.15 A |
| Rated current -5°C                                                            | 29.51 A |
| Rated current at 0°C                                                          | 28.86 A |
| Rated current 5°C                                                             | 28.22 A |
| Rated current 10°C                                                            | 27.58 A |
| Rated current 15°C                                                            | 26.93 A |
| Rated current at 20°C                                                         | 26.29 A |
| Rated current 25°C                                                            | 25.64 A |
| Rated current 30°C                                                            | 25 A    |
| Rated current 35°C                                                            | 24.36 A |
| Rated current at 40°C                                                         | 23.71 A |
| Rated current at 45°C                                                         | 23.07 A |
| Rated current at 50°C                                                         | 22.43 A |
| Rated current 55°C                                                            | 21.78 A |
| Rated current 60°C                                                            | 21.14 A |
| Rated current 65°C                                                            | 20.49 A |
| Rated current 70°C                                                            | 19.85 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            |

# Product Datasheet

## NBN425A

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|                                                          |                  |
|----------------------------------------------------------|------------------|
| <b>Safety</b>                                            |                  |
| Ingress Protection (IP) class                            | IP20             |
| <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                |
| Operating temperature                                    | -25 - 70 °C      |
| <b>Power</b>                                             |                  |
| Total power loss under IN                                | 14.75 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                                                    | 70 mm            |
| Depth                                                    | 70 mm            |
| <b>Sustainability</b>                                    |                  |
| RoHS conform                                             | Yes              |