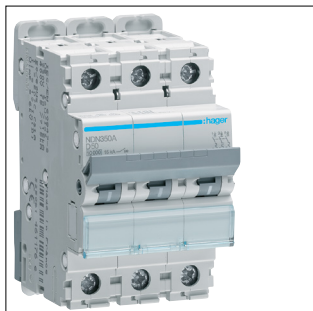




NDN350A

### MCB 3P 10kA D-50A 3M

#### Technical Features

##### Electric current

|                                                                                   |         |
|-----------------------------------------------------------------------------------|---------|
| Rated current                                                                     | 50 A    |
| Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2       | 15 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     | 30 kA   |
| Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2     | 15 kA   |
| Rated current -25°C                                                               | 63.02 A |
| Rated current at -20°C                                                            | 61.95 A |
| Rated current -15°C                                                               | 60.86 A |
| Rated current -10°C                                                               | 59.75 A |
| Rated current -5°C                                                                | 58.62 A |
| Rated current at 0°C                                                              | 57.47 A |
| Rated current 5°C                                                                 | 56.29 A |
| Rated current 10°C                                                                | 55.09 A |
| Rated current 15°C                                                                | 53.86 A |
| Rated current at 20°C                                                             | 52.61 A |
| Rated current 25°C                                                                | 51.32 A |
| Rated current 30°C                                                                | 50 A    |
| Rated current 35°C                                                                | 48.48 A |
| Rated current at 40°C                                                             | 46.91 A |
| Rated current at 45°C                                                             | 45.29 A |
| Rated current at 50°C                                                             | 43.60 A |
| Rated current 55°C                                                                | 41.85 A |
| Rated current 60°C                                                                | 40.02 A |
| Rated current 65°C                                                                | 38.11 A |
| Rated current 70°C                                                                | 36.09 A |

##### Architecture

|              |    |
|--------------|----|
| Type of pole | 3P |
| Curve        | D  |

##### Capacity

|                   |   |
|-------------------|---|
| Number of modules | 3 |
|-------------------|---|

##### 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         | 415 - 415 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> |

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**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 |

**Safety**

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

**Use conditions**

|                                                          |             |
|----------------------------------------------------------|-------------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2           |
| Operating temperature                                    | -25 - 70 °C |

**Power**

|                           |         |
|---------------------------|---------|
| Total power loss under IN | 15.40 W |
|---------------------------|---------|

**Endurance**

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

**Connectivity**

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

**Dimensions**

|        |          |
|--------|----------|
| Height | 83 mm    |
| Width  | 52.50 mm |
| Depth  | 70 mm    |