



## NDN220A

## MCB 2P 10kA/15kA D-20A 2M

## **Technical properties**

| Electric current | E | lect | ric | cui | ren |
|------------------|---|------|-----|-----|-----|
|------------------|---|------|-----|-----|-----|

| Rated current   | 20 A           |
|---|----------------|
| Rated ultimate short-circuit breaking capa-                           |                |
| city Icu under 400 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  | 2P             |
| Curve   | D              |
| Capacity  |                |
| Number of modules   | 2              |
| Main electrical attributes  |                |
| Rated short-circuit breaking capacity Icn AC according to IEC 60898-1 | 10 kA          |
| 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 flex-<br>ible 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   |
|   |   |
| Safaty  |   |
| Safety  | Inac  |
|   | IP20  |
| Ingress Protection (IP) class   | IP20  |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 /   | IP20<br>2   |
| Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2  |   |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2   | 2   |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2  Operating temperature  Power   | -25 - 70 °C   |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2  Operating temperature  Power  Total power loss under IN  | -25 - 70 °C   |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2  Operating temperature  Power  Total power loss under IN  Endurance   | 2<br>-25 - 70 °C<br>5,29 W  |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2  Operating temperature  Power  Total power loss under IN  Endurance  Electric endurance in number of cycles   | 2<br>-25 - 70 °C<br>5,29 W  |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2  Operating temperature  Power  Total power loss under IN  Endurance  Electric endurance in number of cycles  Number of mechanical operations  | 2<br>-25 - 70 °C<br>5,29 W  |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2  Operating temperature  Power  Total power loss under IN  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Connectivity  | 2<br>-25 - 70 °C<br>5,29 W<br>4000<br>20000   |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2  Operating temperature  Power  Total power loss under IN  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Connectivity  Type of connection  Top connection alignment for modular  | 2<br>-25 - 70 °C<br>5,29 W<br>4000<br>20000   |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2  Operating temperature  Power  Total power loss under IN  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Connectivity  Type of connection  Top connection alignment for modular devices  | 2 -25 - 70 °C 5,29 W 4000 20000   |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2  Operating temperature  Power  Total power loss under IN  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Connectivity  Type of connection  Top connection alignment for modular devices  Down connection alignment for modular                             | 2 -25 - 70 °C 5,29 W 4000 20000 Screw terminal Aligned terminal                       |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2  Operating temperature  Power  Total power loss under IN  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Connectivity  Type of connection  Top connection alignment for modular devices  Down connection alignment for modular                             | 2 -25 - 70 °C 5,29 W 4000 20000 Screw terminal Aligned terminal                       |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2  Operating temperature  Power  Total power loss under IN  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Connectivity  Type of connection  Top connection alignment for modular devices  Down connection alignment for modular devices                     | 2<br>-25 - 70 °C<br>5,29 W<br>4000<br>20000   |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2  Operating temperature  Power  Total power loss under IN  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Connectivity  Type of connection  Top connection alignment for modular devices  Down connection alignment for modular devices  Dimensions         | 2 -25 - 70 °C  5,29 W  4000 20000  Screw terminal  Aligned terminal                   |
| Ingress Protection (IP) class  Use conditions  Degree of pollution according to IEC 60664 / IEC 60947-2  Operating temperature  Power  Total power loss under IN  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Connectivity  Type of connection  Top connection alignment for modular devices  Down connection alignment for modular devices  Dimensions  Height | 2 -25 - 70 °C  5,29 W  4000 20000  Screw terminal  Aligned terminal  Aligned terminal |