



NDN320A

**MCB 3P 10kA D-20A 3M**

**Technical Features**

**Electric current**

Rated current	20 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	24.78 A
Rated current at -20°C	24.38 A
Rated current -15°C	23.98 A
Rated current -10°C	23.57 A
Rated current -5°C	23.16 A
Rated current at 0°C	22.73 A
Rated current 5°C	22.30 A
Rated current 10°C	21.86 A
Rated current 15°C	21.41 A
Rated current at 20°C	20.95 A
Rated current 25°C	20.48 A
Rated current 30°C	20 A
Rated current 35°C	19.48 A
Rated current at 40°C	18.94 A
Rated current at 45°C	18.39 A
Rated current at 50°C	17.81 A
Rated current 55°C	17.22 A
Rated current 60°C	16.61 A
Rated current 65°C	15.98 A
Rated current 70°C	15.32 A

**Architecture**

Type of pole	3P
Curve	D

**Capacity**

Number of modules	3
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**Main electrical attributes**

Rated short-circuit breaking capacity Icn AC according to IEC 60898-1	10 kA
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**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
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**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	8.04 W
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**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