



NDN120A

## MCB 1P 10kA/15kA D-20A 1M

### Technical properties

#### Electric current

Rated current	20 A
Rated short-circuit breaking capacity $I_{cn}$ under 230 V AC according to IEC 60898-1	10 kA
Rated ultimate short-circuit breaking capacity $I_{cu}$ under 230 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	1P
Curve	D

#### Capacity

Number of modules	1
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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
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
<b>Main electrical attributes</b>	
Rated short-circuit breaking capacity Icn AC according to IEC 60898-1	10 kA
<b>Voltage</b>	
Rated operational voltage Ue	230 - 400 V
Type voltage supply	AC
Rated insulation voltage Ui	500 V
Rated impulse withstand voltage Uimp	6000 V
<b>Frequency</b>	
Frequency	50 - 60 Hz
<b>Connection</b>	
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
<b>Safety</b>	
Ingress Protection (IP) class	IP20
<b>Use conditions</b>	
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Operating temperature	-25 - 70 °C
<b>Power</b>	
Total power loss under IN	2,56 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	17,50 mm
Depth	70 mm