NDN120A

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

Technical characteristics

Electric current

Rated current	20 A
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	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

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	230 - 400 V
Type voltage supply	AC
Rated insulation voltage Ui	500 V
Rated impulse withstand voltage Uimp	6,000 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

Safety	
Ingress Protection (IP) class	IP20

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

Power	
Total power loss under IN	2.56 W

Endurance	
Electric endurance in number of cycles	4,000
Number of mechanical operations	20,000

Connectivity	
Type of connection	Screw terminal
Top connection alignment for modular devices	Aligned terminal
Down connection alignment for modular devices	Aligned terminal

Dimensions	
Height	83 mm
Width	17.50 mm
Depth	70 mm