Product Datasheet
NDN410A



NDN440A

MCB 4P 10kA/15kA D-10A 4M

Technical Features

Electric current	
Rated current IN	10 A
Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1	20 kA
Rated ultimate short-circuit breaking capacity Icu AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2	15 kA
Rated current at -15°C	12.28 A
Rated current at -10°C	12.05 A
Rated current at -5°C	11.81 A
Rated current at 0°C	11.57 A
Rated current at 5°C	11.32 A
Rated current at 10°C	11.07 A
Rated current at 15°C	10.81 A
Rated current at 20°C	10.55 A
Rated current at 25°C	10.28 A
Rated current at 30°C	10 A
Rated current at 35°C	9.61 A
Rated current at 40°C	9.21 A
Rated current at 45°C	8.78 A
Rated current at 50°C	8.33 A
Rated current at 55°C	7.86 A
Rated current at 60°C	7.36 A
Rated current at 65°C	6.82 A
Rated current at 70°C	6.24 A
Rated short-circuit breaking capacity Icn under 400 V AC according to IEC 60898-1	10 kA
Architecture	
Type of pole	4P
Electric current	
Rated service breaking capacity Ics AC according to IEC 60898-1	7.50 kA
Rated ultimate short-circuit breaking capacity Icu under 230 V AC IEC 60947-2	30 kA
Architecture	
Curve	D
Capacity	
Number of modules	4
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
Nominal tightening torque	2.80 - 2.80 Nm
Voltage	
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 top and bottom terminal with screws, for rigid conductors	1 - 35 mm^2
Cross-section of top and bottom terminal with screws, for flexible conductors	1 - 25 mm^2
Cross-section of top terminal with screws, for flexible conductors	1 - 25 mm^2
Cross-section of top terminal with screws, for rigid conductors	1 - 35 mm^2

Installation, mounting	
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
Grid distance	60 mm
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I^2t	3
Operating temperature	-25 - 70 °C
Power	
Power dissipation at IN	8.29 W
Connectivity	
Top connection alignment for modular devices	Aligned terminal
Down connection alignment for modular devices	Aligned terminal
Dimensions	
Width	70 mm
Height	83 mm
Depth	70 mm
Endurance	
Electric endurance in number of cycles	30000
Sustainability	
RoHS conform	Yes