



NDN450A

MCB 4P 10kA D-50A 4M

Technical Features

Electric current

Rated current	50 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	63.02 A
Rated current at -20°C	61.95 A
Rated current -15°C	60.86 A
Rated current -10°C	59.75 A
Rated current -5°C	58.62 A
Rated current at 0°C	57.47 A
Rated current 5°C	56.29 A
Rated current 10°C	55.09 A
Rated current 15°C	53.86 A
Rated current at 20°C	52.61 A
Rated current 25°C	51.32 A
Rated current 30°C	50 A
Rated current 35°C	48.48 A
Rated current at 40°C	46.91 A
Rated current at 45°C	45.29 A
Rated current at 50°C	43.60 A
Rated current 55°C	41.85 A
Rated current 60°C	40.02 A
Rated current 65°C	38.11 A
Rated current 70°C	36.09 A

Architecture

Type of pole	4P
Curve	D

Capacity

Number of modules	4
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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 ²
Cross-section of input and output with screws, for flexible conductors	1 - 25 mm ²
Cross-section of input with screws, for flexible conductors	1 - 25 mm ²
Cross-section of input with screws, for massive conductors	1 - 35 mm ²

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	20.30 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	70 mm
Depth	70 mm