



NDN104A



MCB 1P 10kA D-4A 1M

Technical characteristics

Architecture

Neutral position	without neutral
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	D

Functions

Concurrently switching N-neutral	No
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Configuration

Number of modules	1
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Connectivity

Top connection alignment for modular devices	Aligned terminal
Bottom connection alignment for modular devices	Aligned terminal

Main electrical features

Rated short circuit breaking capacity I_{cn} AC according IEC60898-1	10 kA
Rated operational voltage U_e	240 / 415 V
Type of supply voltage	AC

Voltage

Rated insulation voltage	500 V
Max operating voltage	440 V
Rated impulse withstand voltage	6000 V
Minimum threshold voltage (U_e min)	12 V

Electric current

Rated current	4 A
Rated service breaking capacity I_{cs} AC according IEC 60898-1	7.5 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 I_n
Magnetic regulating current	10 / 14.4 I_n
min/maxi threshold value of the DC magnetic operation	15 / 30 I_n
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 I_n

Rating current -10°C according to IEC 60947	5.63 A
Rating current -15°C according to IEC 60947	5.75 A
Rating current -20°C according to IEC 60947	5.86 A
Rating current -25°C according to IEC 60947	5.97 A
Rating current -5°C according to IEC 60947	5.52 A
Rating current 0°C according to IEC 60947	5.4 A
Rating current 10°C according to IEC 60947	5.15 A
Rating current 15°C according to IEC 60947	5.02 A
Rating current 20°C according to IEC 60947	4.89 A
Rating current 25°C according to IEC 60947	4.75 A
Rating current 30°C according to IEC 60947	4.61 A
Rating current 35°C according to IEC 60947	4.46 A
Rating current 40°C according to IEC 60947	4.32 A
Rating current 45°C according to IEC 60947	4.16 A
Rating current 5°C according to IEC 60947	5.27 A
Rating current 50°C according to IEC 60947	4 A
Rating current 55°C according to IEC 60947	3.83 A
Rating current 60°C according to IEC 60947	3.66 A
Rating current 65°C according to IEC 60947	3.47 A
Rating current 70°C according to IEC 60947	3.28 A
Rated short circuit breaking capacity I _{cn} under 230V AC according IEC60898-1	10 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 230V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 240V AC IEC 60947-2	15 kA
Rated short circuit breaking capacity I _{cn} under 240V AC according IEC 60898-1	10 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 220V AC IEC 60947-2	15 kA
Electric current / temperature	
Rating current -25°C	5.18 A
Rating current -20°C	5.09 A
Rating current -15°C	4.99 A
Rating current -10°C	4.89 A
Rating current -5°C	4.79 A
Rating current 0°C	4.68 A
Rating current 5°C	4.58 A
Rating current 10°C	4.47 A
Rating current 25°C	4.12 A
Rating current 30°C	4 A
Rating current 35°C	3.87 A
Rating current 40°C	3.74 A
Rating current 45°C	3.61 A
Rating current 50°C	3.47 A

Rating current 55°C	3.33 A
Rating current 60°C	3.17 A
Rating current 65°C	3.01 A
Rating current 70°C	2.85 A

Current correction factors

Correction factor of rating current for 2 devices placed side-by-side	1
Correction factor of rating current for 3 devices placed side-by-side	0.95
Correction factor of rating current for 4 and 5 devices placed side-by-side	0.9
Correction factor of rating current for 6 devices placed side-by-side	0.85
Correction factor of magnetic tripping with 100 Hz	1.1
Correction factor of magnetic tripping with 200 Hz	1.2
Correction factor of magnetic tripping with 400 Hz	1.5
Correction factor of magnetic tripping with 60 Hz	1.1

Dimensions

Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	17.5 mm

Frequency

Frequency	50 to 60 Hz
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Power

Maximum power loss per pole according to the product standard	3 W
Total power loss under IN	2.62 W
Power loss per pole at In	2.62 W

Endurance

Electric endurance in number of cycles	4000
Number of mechanical operations	20000

Installation, mounting

Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of top rail clip for modular devices	NA
Type of bottom rail clip for modular devices	plastic
Type of Bottom Connection for modular devices	Blconnect
Top removability for modular devices	Yes
Bottom removability for modular devices	Yes
Suitable for flush-mounting	Yes

Connection

Connection cross-section at output with screw, for flexible conductor	1 / 25 mm ²
Connection cross-section at output with screw, for massive conductor	1 / 35 mm ²
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 35 mm ²
Connection cross-section of the access with screws, with flexible conductor	1 / 25 mm ²
Downstream cage clamp delivery status	opened
Upstream cage clamp delivery status	opened

Equipment

Can be accessorized	Yes
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Standards

Standard text	EN 60898-1
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Use conditions

Operating temperature	-25...70 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Altitude	2000 m
Storage/transport temperature	-25...80 °C

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Temperature of calibration	30 °C
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