



NDN104A



MCB 1P 10kA/15kA D-4A 1M

Technical properties

Architectu

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
Configuration	
Number of modules	1
Connectivity	
Top connection alignement for modular devices	Aligned terminal
Bottom connection alignement for modular devices	Aligned terminal
Main electrical features	
Rated short circuit breaking capacity Icn AC according IEC60898-1	10 kA
Rated operational voltage Ue	230 / 400 V
Type of supply voltage	AC
Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V
Minimum threshold voltage (Ue min)	12 V
Electric current	
Rated current	4 A
Rated service breaking capacity Ics AC according IEC 60898-1	7.5 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 ln
Magnetic regulating currrent	10 / 14.4 In
min/maxi threshold value of the DC magnetic operation	15 / 30 In
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 ln
Rating current -10°C according to IEC 60947	5.63 A

ating current -25°C according to IEC 0947 ating current -5°C according to IEC 60947 ating current 0°C according to IEC 60947 ating current 10°C according to IEC 60947 ating current 15°C according to IEC 60947 ating current 20°C according to IEC 60947 ating current 20°C according to IEC 60947	5.86 A 5.97 A 5.52 A 5.4 A 5.15 A 5.02 A 4.89 A
ating current -5°C according to IEC 60947 ating current 0°C according to IEC 60947 ating current 10°C according to IEC 60947 ating current 15°C according to IEC 60947 ating current 20°C according to IEC 60947 ating current 25°C according to IEC 60947	5.52 A 5.4 A 5.15 A 5.02 A
ating current 0°C according to IEC 60947 ating current 10°C according to IEC 60947 ating current 15°C according to IEC 60947 ating current 20°C according to IEC 60947 ating current 25°C according to IEC 60947	5.4 A 5.15 A 5.02 A
ating current 10°C according to IEC 60947 ating current 15°C according to IEC 60947 ating current 20°C according to IEC 60947 ating current 25°C according to IEC 60947	5.15 A 5.02 A
ating current 15°C according to IEC 60947 ating current 20°C according to IEC 60947 ating current 25°C according to IEC 60947	5.02 A
ating current 20°C according to IEC 60947 ating current 25°C according to IEC 60947	
ating current 25°C according to IEC 60947	4.89 A
ating current 30°C according to IEC 60947	4.75 A
dering current 50 c decording to 120 005 17	4.61 A
ating current 35°C according to IEC 60947	4.46 A
ating current 40°C according to IEC 60947	4.32 A
ating current 45°C according to IEC 60947	4.16 A
ating current 5°C according to IEC 60947	5.27 A
ating current 50°C according to IEC 60947	4 A
ating current 55°C according to IEC 60947	3.83 A
ating current 60°C according to IEC 60947	3.66 A
ating current 65°C according to IEC 60947	3.47 A
ating current 70°C according to IEC 60947	3.28 A
ated short circuit breaking capacity Icn nder 230V AC according IEC60898-1	10 kA
ated ultimate short-circuit breaking apacity Icu under 230V AC IEC 60947-2	15 kA
ated ultimate short-circuit breaking apacity lcu under 240V AC IEC 60947-2	15 kA
ated short circuit breaking capacity Icn nder 240V AC according IEC 60898-1	10 kA
ated ultimate short-circuit breaking apacity Icu under 220V AC IEC 60947-2	15 kA
lectric current / temperature	
ating current -25°C	5.18 A
ating current -20°C	5.09 A
ating current -15°C	4.99 A
ating current -10°C	4.89 A
ating current -5°C	4.79 A
ating current 0°C	4.68 A
ating current 5°C	4.58 A
ating current 10°C	4.47 A
5	
	4.12 A
	4.12 A 4 A
ating current 25°C ating current 30°C	
ating current 25°C ating current 30°C ating current 35°C	4 A
ating current 25°C ating current 30°C ating current 35°C ating current 40°C	4 A 3.87 A
ating current 25°C ating current 30°C ating current 35°C ating current 40°C ating current 45°C	4 A 3.87 A 3.74 A
ating current 25°C ating current 30°C ating current 35°C ating current 40°C ating current 45°C ating current 50°C	4 A 3.87 A 3.74 A 3.61 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
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 mm²

Connection cross-section at output with	_
screw, for massive conductor	1 / 35 mm²
Connection cross-section for rigid	
conductor, upstream terminals with screws	1 / 35 mm²
Connection cross-section of the access with	
screws, with flexible conductor	1 / 25 mm²
Downstream cage clamp delivery status	opened
Upstream cage clamp delivery status	opened
Equipment	
Can be accessorized	Yes
Standards	
Standard text	EN 60898-1 ; IEC 60947-2
Safety	
Halogen free	No
Use conditions	
Use conditions Operating temperature	-2570 °C
	-2570 °C
Operating temperature Degree of pollution according to IEC 60664 /	
Operating temperature Degree of pollution according to IEC 60664 / IEC 60947-2	2
Operating temperature Degree of pollution according to IEC 60664 / IEC 60947-2 Altitude	2 2000 m