

# MCB 1P 10kA C-2A 1M

# NCN102

### Architecture

Number of protected poles 1 P Number of poles 1 P Type of pole 1 P Curve C Connectivity  Bottom connection alignement for modular devices Aligned terminal Top connection alignement for modular devices Aligned terminal  Main electrical features  Type of supply voltage AC Rated operational voltage Ue 240/415 V  Voltage  Minimum threshold voltage (Ue min) 12 V Rated insulation voltage 500 V Max operating voltage 440 V Rated impulse withstand voltage 6000 V  Electric current  Rated short circuit breaking capacity Icn under 230V AC according IEC 60898-1  Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 230V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60948-1	Neutral position	without neutral
Type of pole Curve C Curve C Connectivity  Bottom connection alignement for modular devices Aligned terminal Top connection alignement for modular devices Aligned terminal  Main electrical features  Type of supply voltage AC Rated operational voltage Ue 240/415 V  Voltage  Minimum threshold voltage (Ue min) 12 V Rated insulation voltage 500 V Max operating voltage 440 V Rated impulse withstand voltage 6000 V  Electric current  Rated short circuit breaking capacity Icn under 230V AC according IEC 60898-1 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 230V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA		1
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Connectivity  Bottom connection alignement for modular devices Aligned terminal Top connection alignement for modular devices Aligned terminal  Main electrical features  Type of supply voltage AC Rated operational voltage Ue 240/415 V  Voltage  Minimum threshold voltage (Ue min) 12 V Rated insulation voltage 500 V Max operating voltage 440 V Rated impulse withstand voltage 6000 V  Electric current  Rated short circuit breaking capacity Icn under 230V 10 kA AC according IEC 60898-1 Rated service breaking capacity Ics AC according IEC 7,5 kA 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 230V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60988-1 Rated service breaking capacity Ics under 220V AC 7,5 kA	Type of pole	1 P
Bottom connection alignement for modular devices Aligned terminal Top connection alignement for modular devices Aligned terminal  Main electrical features  Type of supply voltage AC Rated operational voltage Ue 240/415 V  Voltage  Minimum threshold voltage (Ue min) 12 V Rated insulation voltage 500 V Max operating voltage 440 V Rated impulse withstand voltage 6000 V  Electric current  Rated short circuit breaking capacity Icn under 230V AC according IEC 60898-1 Rated service breaking capacity Ics under 220V AC according IEC 60947-2 Rated service breaking capacity Ics under 230V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA	Curve	С
Main electrical features  Type of supply voltage AC Rated operational voltage Ue 240/415 V  Voltage  Minimum threshold voltage (Ue min) 12 V Rated insulation voltage 500 V Max operating voltage 440 V Rated impulse withstand voltage 6000 V  Electric current  Rated short circuit breaking capacity Icn under 230V 10 kA AC according IEC60898-1 Rated service breaking capacity Ics under 240V 10 kA AC according IEC 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA	Connectivity	
Main electrical features  Type of supply voltage Rated operational voltage Ue  Voltage  Minimum threshold voltage (Ue min) Rated insulation voltage  Max operating voltage Sou V  Max operating voltage Rated impulse withstand voltage  Electric current  Rated short circuit breaking capacity Icn under 230V  Rated short circuit breaking capacity Icn under 240V  AC according IEC 60898-1  Rated service breaking capacity Ics AC according IEC  60898-1  Rated service breaking capacity Ics under 220V AC  7,5 kA  according IEC 60947-2  Rated service breaking capacity Ics under 240V AC  Rated service breaking capacity Ics under 240V AC  7,5 kA  according IEC 60947-2  Rated service breaking capacity Ics under 240V AC  7,5 kA  according IEC 60947-2  Rated service breaking capacity Ics under 220V AC  Rated service breaking capacity Ics under 240V AC  7,5 kA  according IEC 60947-2  Rated service breaking capacity Ics under 220V AC  7,5 kA  according IEC 60898-1  Rated service breaking capacity Ics under 220V AC  7,5 kA  according IEC 60898-1  Rated service breaking capacity Ics under 220V AC  7,5 kA	Bottom connection alignement for modular devices	Aligned terminal
Type of supply voltage Rated operational voltage Ue  Voltage  Minimum threshold voltage (Ue min) Rated insulation voltage Max operating voltage Rated impulse withstand voltage Rated impulse withstand voltage Rated short circuit breaking capacity Icn under 230V Rated short circuit breaking capacity Icn under 240V Rated service breaking capacity Ics AC according IEC Rated service breaking capacity Ics under 220V AC Rated service breaking capacity Ics under 230V AC Rated service breaking capacity Ics under 230V AC Rated service breaking capacity Ics under 240V AC Rated Service Breaki	Top connection alignement for modular devices	Aligned terminal
Voltage  Minimum threshold voltage (Ue min) 12 V Rated insulation voltage 500 V Max operating voltage 440 V Rated impulse withstand voltage 6000 V  Electric current  Rated short circuit breaking capacity Icn under 230V 10 kA AC according IEC60898-1 Rated short circuit breaking capacity Icn under 240V 10 kA AC according IEC 60898-1 Rated service breaking capacity Ics AC according IEC 7,5 kA 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 230V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 6098-1 Rated service breaking capacity Ics under 230V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 230V AC 7,5 kA	Main electrical features	
Minimum threshold voltage (Ue min) Rated insulation voltage Max operating voltage Rated impulse withstand voltage  Electric current  Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1 Rated service breaking capacity Ics AC according IEC Rated service breaking capacity Ics under 220V Rated service breaking capacity Ics under 220V Rated service breaking capacity Ics under 220V Rated service breaking capacity Ics under 230V Rated service breaking capacity Ics under 230V Rated service breaking capacity Ics under 230V Rated service breaking capacity Ics under 240V Rated service	Type of supply voltage	AC
Minimum threshold voltage (Ue min)  Rated insulation voltage  Max operating voltage  Rated impulse withstand voltage  Electric current  Rated short circuit breaking capacity Icn under 230V  AC according IEC60898-1  Rated short circuit breaking capacity Icn under 240V  AC according IEC 60898-1  Rated service breaking capacity Ics AC according IEC  60898-1  Rated service breaking capacity Ics under 220V AC  60898-1  Rated service breaking capacity Ics under 220V AC  7,5 kA  according IEC 60947-2  Rated service breaking capacity Ics under 230V AC  7,5 kA  according IEC 60947-2  Rated service breaking capacity Ics under 240V AC  7,5 kA  according IEC 60947-2  Rated service breaking capacity Ics under 240V AC  7,5 kA  according IEC 60947-2  Rated service breaking capacity Ics under 240V AC  7,5 kA  according IEC 60947-2  Rated service breaking capacity Ics under 220V AC  7,5 kA  according IEC 6098-1  Rated service breaking capacity Ics under 220V AC  7,5 kA	Rated operational voltage Ue	240/415 V
Rated insulation voltage 500 V  Max operating voltage 440 V  Rated impulse withstand voltage 6000 V  Electric current  Rated short circuit breaking capacity Icn under 230V 10 kA  AC according IEC60898-1  Rated short circuit breaking capacity Icn under 240V 10 kA  AC according IEC 60898-1  Rated service breaking capacity Ics AC according IEC 7,5 kA 60898-1  Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2  Rated service breaking capacity Ics under 230V AC 7,5 kA according IEC 60947-2  Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2  Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2  Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60898-1  Rated service breaking capacity Ics under 220V AC 7,5 kA	Voltage	
Rated impulse withstand voltage 6000 V  Electric current  Rated short circuit breaking capacity Icn under 230V 10 kA AC according IEC60898-1 Rated short circuit breaking capacity Icn under 240V 10 kA AC according IEC 60898-1 Rated service breaking capacity Ics AC according IEC 7,5 kA 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 230V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60989-1 Rated service breaking capacity Ics under 220V AC 7,5 kA	Minimum threshold voltage (Ue min)	12 V
Rated impulse withstand voltage 6000 V  Electric current  Rated short circuit breaking capacity Icn under 230V 10 kA AC according IEC60898-1 Rated short circuit breaking capacity Icn under 240V 10 kA AC according IEC 60898-1 Rated service breaking capacity Ics AC according IEC 7,5 kA 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 230V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-1 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 230V AC 7,5 kA	Rated insulation voltage	500 V
Electric current  Rated short circuit breaking capacity Icn under 230V 10 kA AC according IEC60898-1 Rated short circuit breaking capacity Icn under 240V 10 kA AC according IEC 60898-1 Rated service breaking capacity Ics AC according IEC 7,5 kA 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 230V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60988-1 Rated service breaking capacity Ics under 230V AC 7,5 kA	Max operating voltage	440 V
Rated short circuit breaking capacity Icn under 230V 10 kA AC according IEC60898-1 Rated short circuit breaking capacity Icn under 240V 10 kA AC according IEC 60898-1 Rated service breaking capacity Ics AC according IEC 7,5 kA 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 230V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60988-1 Rated service breaking capacity Ics under 230V AC 7,5 kA	Rated impulse withstand voltage	6000 V
AC according IEC60898-1 Rated short circuit breaking capacity Icn under 240V 10 kA AC according IEC 60898-1 Rated service breaking capacity Ics AC according IEC 7,5 kA 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 230V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 230V AC 7,5 kA	Electric current	
AC according IEC 60898-1 Rated service breaking capacity Ics AC according IEC 7,5 kA 60898-1 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 230V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 230V AC 7,5 kA		10 kA
Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 230V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 230V AC 7,5 kA		10 kA
according IEC 60947-2 Rated service breaking capacity Ics under 230V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 230V AC 7,5 kA		7,5 kA
according IEC 60947-2 Rated service breaking capacity Ics under 240V AC 7,5 kA according IEC 60947-2 Rated service breaking capacity Ics under 220V AC 7,5 kA according IEC 60898-1 Rated service breaking capacity Ics under 230V AC 7,5 kA	- · · · · ·	7,5 kA
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according IEC 60898-1 Rated service breaking capacity Ics under 230V AC 7,5 kA		7,5 kA
		7,5 kA
		7,5 kA

Technical Properties	
Rated service breaking capacity Ics under 240V AC	7,5 kA
according IEC 60898-1	
Rated ultimate short-circuit breaking capacity Icu	15 kA
under 220V AC IEC 60947-2	
Rated ultimate short-circuit breaking capacity Icu	15 kA
under 230V AC IEC 60947-2	
Rated ultimate short-circuit breaking capacity Icu	15 kA
under 240V AC IEC 60947-2	
Magnetic regulating currrent at 40° C	5/10 In
min/maxi threshold value of the DC magnetic	7/15 In
operation	
min/maxi threshold value of the AC thermal operation	1,13/1,45 ln
min/maxi threshold value of the DC thermal operation	1,13/1,45 ln

#### Electric current / temperature

Rating current -15°C	2,56 A
Rating current -20°C	2,62 A
Rating current 0°C	2,39 A
Rating current 10°C	2,27 A
Rating current -10°C	2,51 A
Rating current 25°C	2,07 A
Rating current -25°C	2,67 A
Rating current 30°C	2 A
Rating current 35°C	1,93 A
Rating current 40°C	1,85 A
Rating current 45°C	1,77 A
Rating current 5°C	2,33 A
Rating current -5°C	2,45 A
Rating current 50°C	1,69 A
Rating current 55°C	1,6 A
Rating current 60°C	1,51 A
Rating current 65°C	1,41 A
Rating current 70°C	1,31 A
Rating current 0°C according to IEC 60947-2	2,83 A
Rating current 10°C according to IEC 60947-2	2,68 A
Rating current -10°C according to IEC 60947-2	2,97 A
Rating current 150°C according to IEC 60947-2	2,61 A
Rating current -15°C according to IEC 60947-2	3,03 A
Rating current 20°C according to IEC 60947-2	2,53 A
Rating current -20°C according to IEC 60947-2	3,1 A
Rating current 25°C according to IEC 60947-2	2,45 A
Rating current -25°C according to IEC 60947-2	3,16 A
Rating current 30°C according to IEC 60947-2	2,37 A
Rating current 35°C according to IEC 60947-2	2,28 A
Rating current 40°C according to IEC 60947-2	2,19 A
Rating current 45°C according to IEC 60947-2	2,1 A
Rating current 5°C according to IEC 60947-2	2,76 A
Rating current -5°C according to IEC 60947-2	2,9 A
Rating current 50°C according to IEC 60947-2	2 A
Rating current 55°C according to IEC 60947-2	1,9 A
Rating current 60°C according to IEC 60947-2	1,79 A
Rating current 65°C according to IEC 60947-2	1,67 A
Rating current 70°C according to IEC 60947-2	1,55 A

# **Current correction factors**

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
Correction factor of rating current for 2 devices place	d 1
side-by-side	
Correction factor of rating current for 3 devices place	d 0,95
side-by-side	
Correction factor of rating current for 4 and 5 devices	0,9
placed side-by-side	
Correction factor of rating current for 6 devices place	d 0,85
side-by-side	

#### Power

Power loss per pole at In	1,89 W
Maximum power loss per pole according to the product standard	3 W
Total power loss under IN	1,89 W

#### Endurance

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

# Dimensions

Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	17,5 mm

### Installation, mounting

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

#### Connection

Upstream cage clamp delivery status	opened
Downstream cage clamp delivery status	closed
Connection cross-section at output with screw, for flexible conductor	1/25 mm²
Connection cross-section of the access with screws, with 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

Equipment	
Can be accessorized	yes
Standards	
Standard text	EN 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I2t	3
Altitude	2000 m
Storage temperature	-25 to 80 °C
temperatur	
Temperature of calibration	30 °C