



NCN110A



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**MCB 1P 10kA/15kA C-10A 1M**

Product Datasheet

**Architecture**

Neutral position	without neutral
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Fixing mode	Din-Rail
Curve	C

**Functions**

Concurrently switching N-neutral	no
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**Compatibility**

Compatible with DIN rail mounting	yes
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**Controls and indicators**

With fault indicator	no
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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 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	10 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 In
Magnetic regulating current	5 / 10 In
min/maxi threshold value of the DC magnetic operation	7 / 15 In
min/maxi threshold value of the DC thermal operation	1,13 / 1,45 In
Rating current -10°C according to IEC 60947	13,92 A
Rating current -15°C according to IEC 60947	14,2 A
Rating current -20°C according to IEC 60947	14,47 A
Rating current -25°C according to IEC 60947	14,74 A
Rating current -5°C according to IEC 60947	13,64 A
Rating current 0°C according to IEC 60947	13,35 A
Rating current 10°C according to IEC 60947	12,75 A
Rating current 150°C according to IEC 60947	12,44 A
Rating current 20°C according to IEC 60947	12,12 A
Rating current 25°C according to IEC 60947	11,79 A
Rating current 30°C according to IEC 60947	11,46 A
Rating current 35°C according to IEC 60947	11,11 A
Rating current 40°C according to IEC 60947	10,75 A
Rating current 45°C according to IEC 60947	10,38 A
Rating current 5°C according to IEC 60947	13,05 A
Rating current 50°C according to IEC 60947	10 A
Rating current 55°C according to IEC 60947	9,6 A
Rating current 60°C according to IEC 60947	9,19 A
Rating current 65°C according to IEC 60947	8,75 A
Rating current 70°C according to IEC 60947	8,29 A
Rated service breaking capacity Ics under 220V AC according IEC 60947-2	7,5 kA
Rated service breaking capacity Ics under 230V AC according IEC 60947-2	7,5 kA
Rated service breaking capacity Ics under 240V AC according IEC 60947-2	7,5 kA
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	10 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	15 kA
Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1	10 kA
Rated service breaking capacity Ics under 220V AC according IEC 60898-1	7,5 kA
Rated service breaking capacity Ics under 230V AC according IEC 60898-1	7,5 kA
Rated service breaking capacity Ics under 240V AC according IEC 60898-1	7,5 kA
Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2	15 kA

#### Electric current / temperature

Rating current -25°C	12,86 A
Rating current -20°C	12,63 A
Rating current -15°C	12,39 A
Rating current -10°C	12,15 A
Rating current -5°C	11,9 A
Rating current 0°C	11,65 A
Rating current 5°C	11,39 A
Rating current 10°C	11,13 A
Rating current 25°C	10,29 A
Rating current 30°C	10 A
Rating current 35°C	9,7 A
Rating current 40°C	9,39 A
Rating current 45°C	9,06 A
Rating current 50°C	8,73 A
Rating current 55°C	8,38 A
Rating current 60°C	8,02 A
Rating current 65°C	7,64 A
Rating current 70°C	7,24 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

#### 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 I <sub>N</sub>	1,87 W
Power loss per pole at I <sub>n</sub>	1,87 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 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
360° product mounting position	yes

**Connection**

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

**Equipment**

Can be accessorized	yes
With transparent product label holder	yes

**Standards**

Standard text	EN 60898-1, IEC 60947-2
European directive WEEE	concerned
Product categories described in the W3E directive 2012/19/EU	Category 5

**Safety**

Protection index IP	IP20
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**Use conditions**

Operating temperature	-25...70 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Storage/transport temperature	-25...80 °C

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Temperature of calibration

50 °C

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