



NCN420A



## MCB 4P 10kA/15kA C-20A 4M

## **Technical properties**

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Neutral position	without neutral
Number of protected poles	4
Number of poles	4 P
Type of pole	4 P
Fixing mode	Din-Rail
Curve	С
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	4
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	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	20 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	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

Reting current -15°C according to IEC 60947 2.7.17 A 6.7.25°C according to IEC 60947 2.5°C according IEC 60947 2.5°C according to IEC 60947 2.5°C according to IE	Rating current -10°C according to IEC 60947	26.27 A
69947         27.17 A           Rating current -25°C according to IEC 60947         27.61 A           Rating current -5°C according to IEC 60947         25.8 A           Rating current 10°C according to IEC 60947         24.36 A           Rating current 115°C according to IEC 60947         23.34 A           Rating current 25°C according to IEC 60947         23.46 A           Rating current 25°C according to IEC 60947         22.29 A           Rating current 30°C according to IEC 60947         22.29 A           Rating current 30°C according to IEC 60947         21.14 A           Rating current 40°C according to IEC 60947         21.17 A           Rating current 40°C according to IEC 60947         21.17 A           Rating current 5°C according to IEC 60947         20.6 A           Rating current 5°C according to IEC 60947         20.6 A           Rating current 5°C according to IEC 60947         20.8           Rating current 5°C according to IEC 60947         19.34 A           Rating current 5°C according to IEC 60947         19.34 A           Rating current 5°C according to IEC 60947         19.34 A           Rating current 5°C according to IEC 60947         19.34 A           Rating current 7°C according to IEC 60947         19.4 A           Rating current 7°C according to IEC 60947         19.4 A		26.72 A
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Rating current 65°C according to IEC 60947  Rating current 70°C according to IEC 60947  Rating current 70°C according to IEC 60947  Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1  Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1  Rated ultimate short-circuit breaking capacity Icn under 400V AC according IEC60898-1  Rated ultimate short-circuit breaking capacity Icn under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icn under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icn under 415V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icn under 415V AC IEC 60947-2  Rated short circuit breaking capacity Icn under 420V AC IEC 60988-1  Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1  Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icn under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icn under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icn under 315V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icn under 315V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icn under 320V AC IEC 60947-2  30 kA  Rated ultimate short-circuit breaking capacity Icn under 380V AC IEC 60947-2  315 kA  Rated ultimate short-circuit breaking capacity Icn under 380V AC IEC 60947-2  32 30 kA  Rated ultimate short-circuit breaking capacity Icn under 380V AC IEC 60947-2  33 kA  Rated ultimate short-circuit breaking capacity Icn under 380V AC IEC 60947-2  34.38 A  Rating current -15°C  24.38 A  Rating current -10°C  23.57 A  Rating current -5°C  23.16 A  Rating current 0°C	Rating current 55°C according to IEC 60947	19.34 A
Rating current 70°C according to IEC 60947  Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1  Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1  Rated ultimate short-circuit breaking capacity Icn under 400V AC according IEC60898-1  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated short circuit breaking capacity Icu under 240V AC according IEC 60898-1  Rated short circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated short circuit breaking capacity Icu under 415V AC according IEC 60898-1  Rated short circuit breaking capacity Icu under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rating current -25°C  24.78 A  Rating current -15°C  23.98 A  Rating current -15°C  23.98 A  Rating current -10°C  23.57 A  Rating current -5°C	Rating current 60°C according to IEC 60947	18.65 A
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1  Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated short circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated short circuit breaking capacity Icu under 240V AC according IEC 60948-1  Rated short circuit breaking capacity Icu under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rating current -25°C  24.78 A  Rating current -15°C  23.98 A  Rating current -15°C  23.98 A  Rating current -5°C  23.16 A  Rating current -5°C	Rating current 65°C according to IEC 60947	17.94 A
under 230V AC according IECG0898-1  Rated short circuit breaking capacity Icn under 400V AC according IECG0898-1  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated short circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated short circuit breaking capacity Icu under 240V AC according IEC 60898-1  Rated short circuit breaking capacity Icu under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 415V AC according IEC 608947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  15 kA  Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  15 kA  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  20 kA  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  21 kA  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  22 k38 A  Rating current -25°C  23 k38 A  Rating current -10°C  23 k39 A  Rating current -5°C  23 k36 A  Rating current -5°C  23 k36 A  Rating current 0°C	Rating current 70°C according to IEC 60947	17.2 A
under 400V AC according IEC60898-1  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated short circuit breaking capacity Icu under 240V AC according IEC 60898-1  Rated short circuit breaking capacity Icu under 240V AC according IEC 60898-1  Rated short circuit breaking capacity Icu under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 240V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  24.78 A  Rating current -15°C  23.98 A  Rating current -10°C  23.57 A  Rating current -5°C  23.16 A  Rating current -5°C  22.73 A		10 kA
capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated short circuit breaking capacity Icu under 240V AC according IEC 60988-1  Rated short circuit breaking capacity Icu under 240V AC according IEC 60898-1  Rated short circuit breaking capacity Icu under 240V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  24.78 A  Rating current -20°C  24.38 A  Rating current -10°C  23.57 A  Rating current -5°C  23.16 A  Rating current -5°C  23.16 A	9	10 kA
capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated short circuit breaking capacity Icu under 240V AC according IEC 60898-1  Rated short circuit breaking capacity Icu under 240V AC according IEC 60898-1  Rated short circuit breaking capacity Icu under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  24.78 A  Rating current -20°C  24.38 A  Rating current -10°C  23.57 A  Rating current -10°C  23.57 A  Rating current -5°C  23.16 A  Rating current 0°C		30 kA
capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated short circuit breaking capacity Icu under 240V AC according IEC 60898-1  Rated short circuit breaking capacity Icu under 240V AC according IEC 60898-1  Rated short circuit breaking capacity Icu under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  15 kA  Electric current / temperature  Rating current -25°C  24.78 A  Rating current -20°C  24.38 A  Rating current -15°C  23.98 A  Rating current -10°C  23.57 A  Rating current -5°C  23.16 A  Rating current 0°C	3	30 kA
capacity Icu under 415V AC IEC 60947-2  Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1  Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icn under 240V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  Rating current -20°C  24.78 A  Rating current -15°C  23.98 A  Rating current -10°C  23.57 A  Rating current -5°C  23.16 A  Rating current 0°C  22.73 A		15 kA
under 240V AC according IEC 60898-1  Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  Rating current -20°C  Rating current -15°C  Rating current -10°C  Rating current -5°C	g g	15 kA
under 415V AC according IEC 60898-1  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  Rating current -20°C  Rating current -15°C  Rating current -10°C  Rating current -10°C  Rating current -5°C  Rating current -5°C  Rating current -5°C  Rating current -5°C  Rating current -20°C  Rating current -20°C  Rating current -10°C  Rating current -20°C		10 kA
capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  Rating current -20°C  Rating current -15°C  Rating current -10°C  Rating current -5°C		10 kA
Electric current / temperature  Rating current -25°C 24.78 A Rating current -20°C 24.38 A Rating current -15°C 23.98 A Rating current -10°C 23.57 A Rating current -5°C 23.16 A Rating current -5°C 22.73 A	9	30 kA
Rating current -25°C       24.78 A         Rating current -20°C       24.38 A         Rating current -15°C       23.98 A         Rating current -10°C       23.57 A         Rating current -5°C       23.16 A         Rating current 0°C       22.73 A	9	15 kA
Rating current -20°C 24.38 A Rating current -15°C 23.98 A Rating current -10°C 23.57 A Rating current -5°C 23.16 A Rating current 0°C 22.73 A	Electric current / temperature	
Rating current -15°C 23.98 A  Rating current -10°C 23.57 A  Rating current -5°C 23.16 A  Rating current 0°C 22.73 A	Rating current -25°C	24.78 A
Rating current -10°C 23.57 A Rating current -5°C 23.16 A Rating current 0°C 22.73 A	Rating current -20°C	24.38 A
Rating current -5°C 23.16 A Rating current 0°C 22.73 A	Rating current -15°C	23.98 A
Rating current 0°C 22.73 A	Rating current -10°C	23.57 A
	Rating current -5°C	23.16 A
Rating current 5°C 22.3 A	Rating current 0°C	22.73 A
	Rating current 5°C	22.3 A

Rating current 10°C	21.86 A
Rating current 25°C	20.48 A
Rating current 30°C	20 A
Rating current 35°C	19.48 A
Rating current 40°C	18.94 A
Rating current 45°C	18.39 A
Rating current 50°C	17.81 A
Rating current 55°C	17.22 A
Rating current 60°C	16.61 A
Rating current 65°C	15.98 A
Rating current 70°C	15.32 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	70 mm
Frequency	
Frequency	50 to 60 Hz
Power	
Maximum power loss per pole according to the product standard	4.5 W
Total power loss under IN	10.87 W
Power loss per pole at in	2.74 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  European directive WEEE	concerned
	Concerned
Safety	
Protection index IP	IP20
REACH conform  RoHS conform	No Yes
Halogen free	No
Han and Blanca	
Use conditions	25 70.00
Operating temperature	-2570 °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	-2580 °C
temperatur	
Temperature of calibration	50 °C