Product Data Sheet NDN420A





NDN420A



NDN440A

MCB 4P 10kA D-20A 4M

Technische Merkmale

Neutral position	without neutral
Number of protected poles	4
Number of poles	4 P
Type of pole	4 P
Curve	D
Connectivity	
Bottom connection alignement for modular devices	Aligned terminal
Top connection alignement for modular devices	Aligned terminal
	AC
Main electrical features Type of supply voltage Rated operational voltage Ue	
Type of supply voltage	AC
Type of supply voltage Rated operational voltage Ue	AC
Type of supply voltage Rated operational voltage Ue Voltage	AC 415 V
Type of supply voltage Rated operational voltage Ue Voltage Minimum threshold voltage (Ue min)	AC 415 V 12 V

Electric current

Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	15 kA
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	10 kA
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	10 kA
Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1	10 kA
Rated short circuit breaking capacity Icn under 380V AC according IEC 60898-1	10 kA
Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1	10 kA
Rated service breaking capacity Ics AC according IEC 60898-1	7,5 kA
Rated service breaking capacity Ics under 220V AC according IEC 60947-2	15 kA
Rated service breaking capacity Ics under 230V AC according IEC 60947-2	15 kA
Rated service breaking capacity Ics under 240V AC according IEC 60947-2	15 kA
Rated service breaking capacity Ics under 380V AC according IEC 60947-2	7,5 kA
Rated service breaking capacity Ics under 400V AC according IEC 60947-2	7,5 kA
Rated service breaking capacity Ics under 415V AC according IEC 60947-2	7,5 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 service breaking capacity Ics under 380V AC according IEC 60898-1	7,5 kA
Rated service breaking capacity Ics under 400V AC according IEC 60898-1	7,5 kA
Rated service breaking capacity Ics under 415V AC according IEC 60898-1	7,5 kA
Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2	30 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	30 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	30 kA
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	15 kA
Magnetic regulating currrent at 40° C	10/14,4 In
min/maxi threshold value of the DC magnetic operation	15/30 In
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

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Rating current -20°C according to IEC 60947-227,17 ARating current 25°C according to IEC 60947-222,82 ARating current -25°C according to IEC 60947-227,61 ARating current 30°C according to IEC 60947-222,29 ARating current 35°C according to IEC 60947-221,74 ARating current 40°C according to IEC 60947-221,17 ARating current 40°C according to IEC 60947-221,17 ARating current 45°C according to IEC 60947-220,6 ARating current 5°C according to IEC 60947-224,85 ARating current -5°C according to IEC 60947-225,8 ARating current 5°C according to IEC 60947-220 ARating current 5°C according to IEC 60947-219,34 ARating current 60°C according to IEC 60947-218,65 A	Rating current -15°C according to IEC 60947-2	26,72 A
Rating current 25°C according to IEC 60947-222,82 ARating current -25°C according to IEC 60947-227,61 ARating current 30°C according to IEC 60947-222,29 ARating current 35°C according to IEC 60947-221,74 ARating current 40°C according to IEC 60947-221,74 ARating current 40°C according to IEC 60947-221,74 ARating current 45°C according to IEC 60947-220,6 ARating current 5°C according to IEC 60947-224,85 ARating current -5°C according to IEC 60947-225,8 ARating current 50°C according to IEC 60947-220 ARating current 50°C according to IEC 60947-220 ARating current 55°C according to IEC 60947-219,34 ARating current 60°C according to IEC 60947-218,65 A	Rating current 20°C according to IEC 60947-2	23,34 A
Rating current -25°C according to IEC 60947-227,61 ARating current 30°C according to IEC 60947-222,29 ARating current 35°C according to IEC 60947-221,74 ARating current 40°C according to IEC 60947-221,17 ARating current 45°C according to IEC 60947-220,6 ARating current 5°C according to IEC 60947-224,85 ARating current -5°C according to IEC 60947-225,8 ARating current 50°C according to IEC 60947-220,6 ARating current 50°C according to IEC 60947-224,85 ARating current 55°C according to IEC 60947-220,8 ARating current 50°C according to IEC 60947-219,34 ARating current 60°C according to IEC 60947-218,65 A	Rating current -20°C according to IEC 60947-2	27,17 A
Rating current 30°C according to IEC 60947-222,29 ARating current 35°C according to IEC 60947-221,74 ARating current 40°C according to IEC 60947-221,17 ARating current 45°C according to IEC 60947-220,6 ARating current 5°C according to IEC 60947-224,85 ARating current -5°C according to IEC 60947-225,8 ARating current 50°C according to IEC 60947-220 ARating current 55°C according to IEC 60947-220 ARating current 55°C according to IEC 60947-219,34 ARating current 55°C according to IEC 60947-219,34 ARating current 60°C according to IEC 60947-218,65 A	Rating current 25°C according to IEC 60947-2	22,82 A
Rating current 35°C according to IEC 60947-221,74 ARating current 40°C according to IEC 60947-221,17 ARating current 45°C according to IEC 60947-220,6 ARating current 5°C according to IEC 60947-224,85 ARating current -5°C according to IEC 60947-225,8 ARating current 50°C according to IEC 60947-220 ARating current 55°C according to IEC 60947-220 ARating current 55°C according to IEC 60947-220 ARating current 55°C according to IEC 60947-219,34 ARating current 60°C according to IEC 60947-218,65 A	Rating current -25°C according to IEC 60947-2	27,61 A
Rating current 40°C according to IEC 60947-221,17 ARating current 45°C according to IEC 60947-220,6 ARating current 5°C according to IEC 60947-224,85 ARating current -5°C according to IEC 60947-225,8 ARating current 50°C according to IEC 60947-220 ARating current 50°C according to IEC 60947-220 ARating current 55°C according to IEC 60947-219,34 ARating current 60°C according to IEC 60947-218,65 A	Rating current 30°C according to IEC 60947-2	22,29 A
Rating current 45°C according to IEC 60947-220,6 ARating current 5°C according to IEC 60947-224,85 ARating current -5°C according to IEC 60947-225,8 ARating current 50°C according to IEC 60947-220 ARating current 55°C according to IEC 60947-220 ARating current 55°C according to IEC 60947-219,34 ARating current 60°C according to IEC 60947-218,65 A	Rating current 35°C according to IEC 60947-2	21,74 A
Rating current 5°C according to IEC 60947-224,85 ARating current -5°C according to IEC 60947-225,8 ARating current 50°C according to IEC 60947-220 ARating current 55°C according to IEC 60947-219,34 ARating current 60°C according to IEC 60947-218,65 A	Rating current 40°C according to IEC 60947-2	21,17 A
Rating current -5°C according to IEC 60947-225,8 ARating current 50°C according to IEC 60947-220 ARating current 55°C according to IEC 60947-219,34 ARating current 60°C according to IEC 60947-218,65 A	Rating current 45°C according to IEC 60947-2	20,6 A
Rating current 50°C according to IEC 60947-220 ARating current 55°C according to IEC 60947-219,34 ARating current 60°C according to IEC 60947-218,65 A	Rating current 5°C according to IEC 60947-2	24,85 A
Rating current 55°C according to IEC 60947-219,34 ARating current 60°C according to IEC 60947-218,65 A	Rating current -5°C according to IEC 60947-2	25,8 A
Rating current 60°C according to IEC 60947-2 18,65 A	Rating current 50°C according to IEC 60947-2	20 A
	Rating current 55°C according to IEC 60947-2	19,34 A
Rating current 65°C according to IEC 60947-2 17,94 A	Rating current 60°C according to IEC 60947-2	18,65 A
	Rating current 65°C according to IEC 60947-2	17,94 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 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

Power

Power loss per pole at In	2,74 W
Maximum power loss per pole according to the product standard	4,5 W
Total power loss under IN	10,87 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	70 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	opened
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

:hager

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