Product data sheet NDN303A



NDN303A

MCB 3P 10kA D-3A 3M

Architecture

Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3 P
Curve	D

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	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

15 kA
10 kA
7,5 kA
15 kA

Technical Properties	
Rated service breaking capacity Ics under 230V AC	15 kA
according IEC 60947-2	
Rated service breaking capacity Ics under 240V AC	15 kA
according IEC 60947-2	
Rated service breaking capacity Ics under 380V AC	7,5 kA
according IEC 60947-2	
Rated service breaking capacity Ics under 400V AC	7,5 kA
according IEC 60947-2	
Rated service breaking capacity Ics under 415V 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
according IEC 60898-1	
Rated service breaking capacity Ics under 240V AC	7,5 kA
according IEC 60898-1	
Rated service breaking capacity Ics under 380V AC	7,5 kA
according IEC 60898-1	
Rated service breaking capacity Ics under 400V AC	7,5 kA
according IEC 60898-1	
Rated service breaking capacity Ics under 415V AC	7,5 kA
according IEC 60898-1	
Rated ultimate short-circuit breaking capacity Icu	30 kA
under 220V AC IEC 60947-2	
Rated ultimate short-circuit breaking capacity Icu	30 kA
under 230V AC IEC 60947-2	
Rated ultimate short-circuit breaking capacity Icu	30 kA
under 240V AC IEC 60947-2	
Rated ultimate short-circuit breaking capacity Icu	15 kA
under 380V AC IEC 60947-2	
Rated ultimate short-circuit breaking capacity Icu	15 kA
under 415V AC IEC 60947-2	
Magnetic regulating currrent at 40° C	10/14,4 In
min/maxi threshold value of the DC magnetic	15/30 ln
operation	
min/maxi threshold value of the AC thermal operation	
min/maxi threshold value of the DC thermal operation	1,13/1,45 ln

Electric current / temperature

Rating current -15°C	3,47 A
Rating current -20°C	3,52 A
Rating current 0°C	3,32 A
Rating current 10°C	3,22 A
Rating current -10°C	3,42 A
Rating current 25°C	3,06 A
Rating current -25°C	3,57 A
Rating current 30°C	3 A
Rating current 35°C	2,93 A
Rating current 40°C	2,85 A
Rating current 45°C	2,77 A
Rating current 5°C	3,27 A
Rating current -5°C	3,37 A
Rating current 50°C	2,69 A
Rating current 55°C	2,6 A
Rating current 60°C	2,52 A
Rating current 65°C	2,43 A
Rating current 70°C	2,33 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	ed 1
side-by-side	
Correction factor of rating current for 3 devices place	ed 0,95
side-by-side	
Correction factor of rating current for 4 and 5 devices	s 0,9
placed side-by-side	
Correction factor of rating current for 6 devices place	ed 0,85
side-by-side	

Power

Power loss per pole at In	2,21 W
Maximum power loss per pole according to the product standard	3 W
Total power loss under IN	6,6 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	52,5 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	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

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	2	
	2000 m	
60947-2 Altitude Storage temperature	2 2000 m -25 to 80 °C	
temperatur		