



NDN332A

## MCB 3P 10kA/15kA D-32A 3M

## **Technical properties**

Arc	hi	tec	tu	re
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Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3 P
Curve	D
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	3
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	32 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 currrent	10 / 14.4 In
min/maxi threshold value of the DC magnetic operation	15 / 30 In
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 ln
Rating current -10°C according to IEC	
60947	41.08 A

Rating current -5°C according to IEC 60947  Rating current 10°C according to IEC 60947  Rating current 10°C according to IEC 60947  Rating current 15°C according to IEC 60947  Rating current 20°C according to IEC 60947  Rating current 25°C according to IEC 60947  Rating current 30°C according to IEC 60947  Rating current 35°C according to IEC 60947  Rating current 40°C according to IEC 60947  Rating current 45°C according to IEC 60947  Rating current 5°C according to IEC 60947  Rating current 5°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 60°C according to IEC 60947	42.4 A 43.05 A 40.4 A 39.71 A 38.29 A 37.56 A 36.82 A 36.06 A 35.29 A 34.49 A 32.85 A 39.01 A 32 A 31.09 A 30.16 A 29.19 A 28.19 A
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city Icu under 230V AC IEC 60947-2	10 kA
Rated ultimate short-circuit breaking cana-	30 kA
city Icu under 240V AC IEC 60947-2	30 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	15 kA
Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1	10 kA
Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1	10 kA
Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2	30 kA
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	15 kA
Electric current / temperature	
Rating current -25°C	39.04 A
Rating current -20°C	38.45 A
Rating current -15°C	37.86 A
Rating current -10°C	37.25 A
Rating current -5°C	36.64 A
Rating current 0°C	36.01 A
Rating current 5°C	
Rating current 10°C	35.37 A

Rating current 25°C	32.7 A
Rating current 30°C	32 A
Rating current 35°C	31.26 A
Rating current 40°C	30.5 A
Rating current 45°C	29.72 A
Rating current 50°C	28.92 A
Rating current 55°C	28.1 A
Rating current 60°C	27.26 A
Rating current 65°C	26.38 A
Rating current 70°C	25.48 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	52.5 mm
Frequency	
Frequency	50 to 60 Hz
Power	
Maximum power loss per pole according to the product standard	6 W
Total power loss under IN	12.3 W
Power loss per pole at In	4.22 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	
Type of top rail clip for filoudial devices	NA

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	
Standard text	EN 60898-1 ; IEC 60947-2
Safety	
REACH conform	No
RoHS conform	Yes
Halogen free	No
Use conditions	
Operating temperature	-2570 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Altitude	2000 m
Storage/transport temperature	-2580 °C
temperatur	
Temperature of calibration	50 °C