

# MCB 3P 10kA/15kA D-16A 3M

# NDN316A

### Architecture

without neutral 3 3 P
3 P
<del>-</del> ·
2 D
3 P
Din-Rail
D
no
yes
no
Aligned terminal
Aligned terminal
10 kA
400 V
AC
500 V
300 V
6000 V

# Electric current

Rated current	16 A
Rated service breaking capacity Ics AC according IEC	7,5 kA
60898-1	
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 ln
Magnetic regulating currrent	10 / 14,4 ln
min/maxi threshold value of the DC magnetic	15 / 30 ln
operation	
min/maxi threshold value of the DC thermal operation	1,13 / 1,45 ln
Rating current -10°C according to IEC 60947	21,74 A
Rating current -15°C according to IEC 60947	22,15 A
Rating current -20°C according to IEC 60947	22,55 A
Rating current -25°C according to IEC 60947	22,95 A
Rating current -5°C according to IEC 60947	21,32 A
Rating current 0°C according to IEC 60947	20,89 A
Rating current 10°C according to IEC 60947	20,01 A
Rating current 150°C according to IEC 60947	19,55 A
Rating current 20°C according to IEC 60947	19,09 A
Rating current 25°C according to IEC 60947	18,61 A
Rating current 30°C according to IEC 60947	18,12 A
Rating current 35°C according to IEC 60947	17,61 A
Rating current 40°C according to IEC 60947	17,09 A
Rating current 45°C according to IEC 60947	16,55 A
Rating current 5°C according to IEC 60947	20,46 A
Rating current 50°C according to IEC 60947	16 A
Rating current 55°C according to IEC 60947	15,3 A
Rating current 60°C according to IEC 60947	14,56 A
Rating current 65°C according to IEC 60947	13,78 A
Rating current 70°C according to IEC 60947	12,96 A
Rated service breaking capacity Ics under 220V AC	15 kA
according IEC 60947-2	
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	1014
Rated short circuit breaking capacity Icn under 230V	10 kA
AC according IEC60898-1	1014
Rated short circuit breaking capacity Icn under 400V	10 kA
AC according IEC60898-1	0014
Rated ultimate short-circuit breaking capacity Icu	30 kA
under 230V AC IEC 60947-2	0014
Rated ultimate short-circuit breaking capacity Icu	30 kA
under 240V AC IEC 60947-2	151.4
Rated ultimate short-circuit breaking capacity lcu	15 kA
under 400V AC IEC 60947-2	151.4
Rated ultimate short-circuit breaking capacity Icu	15 kA
under 415V AC IEC 60947-2	101.4
Rated short circuit breaking capacity Icn under 240V	10 kA
AC according IEC 60898-1	10 kA
Rated short circuit breaking capacity Icn under 380V	10 kA
AC according IEC 60898-1	10 kA
Rated short circuit breaking capacity Icn under 415V	10 kA
AC according IEC 60898-1	

Technical Properties	
Rated service breaking capacity Ics under 220V AC	7,5 kA
according IEC 60898-1	1,6 101
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	15 kA
under 380V AC IEC 60947-2	
Electric current / temperature	
Dating and OFFIC	20.07 A
Rating current -25°C	20,27 A
Rating current -20°C Rating current -15°C	19,92 A
-	19,56 A
Rating current -10°C	19,2 A
Rating current -5°C Rating current 0°C	18,83 A
_	18,45 A
Rating current 5°C Rating current 10°C	18,07 A
Rating current 25°C	17,67 A 16,43 A
Rating current 30°C	16 A
Rating current 35°C	15,48 A
Rating current 40°C	14,94 A
Rating current 45°C	14,38 A
Rating current 50°C	13,8 A
Rating current 55°C	13,19 A
Rating current 60°C	12,56 A
Rating current 65°C	11,89 A
Rating current 70°C	11,18 A
Tracing durient to 0	11,1071
Current correction factors	
Correction factor of rating current for 2 devices placed	1
side-by-side	
Correction factor of rating current for 3 devices placed	0,95
side-by-side	
Correction factor of rating current for 4 and 5 devices	0,9
placed side-by-side	
Correction factor of rating current for 6 devices placed	0,85
side-by-side	
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

Power	
Maximum power loss per pole according to the	3,5 W
product standard	
Total power loss under IN	8,27 W
Power loss per pole at In	2,8 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 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 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
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	Category 5
2012/19/EU	Category 3
Safety	
Protection index IP	IP20

# Use conditions

Operating temperature	-25 70 °C	
Degree of pollution according to IEC 60664 / IEC 60947-2	2	
Altitude	2000 m	
Storage/transport temperature	-25 80 °C	
temperatur		
Temperature of calibration	50 °C	