



NDN203A

MCB 2P 10kA D-3A 2M

Technical properties

Architecture

Neutral position	without neutral
Number of protected poles	2
Number of poles	2 P
Type of pole	2 P
Curve	D

Functions

Concurrently switching N-neutral	No
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Configuration

Number of modules	2
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Connectivity

Top connection alignment for modular devices	Aligned terminal
Bottom connection alignment for modular devices	Aligned terminal

Main electrical features

Rated short circuit breaking capacity I_{cn} AC according IEC60898-1	10 kA
Rated operational voltage U_e	415 V
Type of supply voltage	AC

Voltage

Rated insulation voltage	500 V
Max operating voltage	440 V
Rated impulse withstand voltage	6000 V
Minimum threshold voltage (U_e min)	12 V

Electric current

Rated current	3 A
Rated service breaking capacity I_{cs} AC according IEC 60898-1	7.5 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 I_n
Magnetic regulating current	10 / 14.4 I_n
min/maxi threshold value of the DC magnetic operation	15 / 30 I_n
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 I_n

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 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 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	3.76 A
Rating current -20°C	3.69 A
Rating current -15°C	3.63 A
Rating current -10°C	3.57 A
Rating current -5°C	3.5 A
Rating current 0°C	3.44 A
Rating current 5°C	3.38 A
Rating current 10°C	3.32 A
Rating current 25°C	3.15 A
Rating current 30°C	3 A
Rating current 35°C	2.97 A
Rating current 40°C	2.93 A
Rating current 45°C	2.91 A
Rating current 50°C	2.87 A
Rating current 55°C	2.86 A
Rating current 60°C	2.85 A
Rating current 65°C	2.84 A
Rating current 70°C	2.83 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
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Correction factor of magnetic tripping with 60 Hz	1.1
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Dimensions

Depth of installed product	70 mm
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Height of installed product	83 mm
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Width of installed product	35 mm
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Frequency

Frequency	50 to 60 Hz
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Power

Maximum power loss per pole according to the product standard	3 W
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Total power loss under IN	4.41 W
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Power loss per pole at In	2.22 W
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Endurance

Electric endurance in number of cycles	4000
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Number of mechanical operations	20000
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Installation, mounting

Type of top connection for modular devices	with screw
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Tightening torque	2,8Nm
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Type of top rail clip for modular devices	NA
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Type of bottom rail clip for modular devices	plastic
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Type of Bottom Connection for modular devices	Blconnect
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Top removability for modular devices	Yes
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Bottom removability for modular devices	Yes
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Suitable for flush-mounting	Yes
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Connection

Connection cross-section at output with screw, for flexible conductor	1 / 25 mm ²
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Connection cross-section at output with screw, for massive conductor	1 / 35 mm ²
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Connection cross-section for rigid conductor, upstream terminals with screws	1 / 35 mm ²
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Connection cross-section of the access with screws, with flexible conductor	1 / 25 mm ²
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Downstream cage clamp delivery status	opened
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Upstream cage clamp delivery status	opened
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Equipment

Can be accessorized	Yes
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Standards

Standard text	EN 60898-1
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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
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Temperature of calibration	30 °C