



NBN410A

MCB 4P 10kA/15kA B-10A 4M

Technical properties

	without neutral
Number of protected poles	4
Number of poles	4 F
Type of pole	4 P
Fixing mode	Din-Rail
Curve	В
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	4
Connectivity	
Top connection alignement for modular devices	Aligned terminal
Bottom connection alignement for modular devices	Aligned termina
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	
	400 V AC
Voltage	
Type of supply voltage Voltage Rated insulation voltage Rated impulse withstand voltage	AC
Voltage Rated insulation voltage	AC 500 V
Voltage Rated insulation voltage Rated impulse withstand voltage	AC 500 V 6000 V
Voltage Rated insulation voltage Rated impulse withstand voltage Minimum threshold voltage (Ue min)	AC 500 V 6000 V
Voltage Rated insulation voltage Rated impulse withstand voltage Minimum threshold voltage (Ue min) Electric current Rated current Rated service breaking capacity Ics AC	AC 500 V 6000 V 12 V
Voltage Rated insulation voltage Rated impulse withstand voltage Minimum threshold voltage (Ue min) Electric current Rated current Rated service breaking capacity Ics AC according IEC 60898-1 min/maxi threshold value of the AC thermal	AC 500 V 6000 V 12 V 10 A
Voltage Rated insulation voltage Rated impulse withstand voltage Minimum threshold voltage (Ue min) Electric current	AC 500 V 6000 V 12 V 10 A 7.5 KA
Voltage Rated insulation voltage Rated impulse withstand voltage Minimum threshold voltage (Ue min) Electric current Rated current Rated service breaking capacity Ics AC according IEC 60898-1 min/maxi threshold value of the AC thermal operation	AC 500 V 6000 V 12 V 10 A 7.5 kA 1.13 / 1.45 Ir

Rating current -10°C according to IEC 60947	13.69 A
Rating current -15°C according to IEC 60947	13.95 A
Rating current -20°C according to IEC 60947	14.21 A
Rating current -25°C according to IEC 60947	14.47 A
Rating current -5°C according to IEC 60947	13.42 A
Rating current 0°C according to IEC 60947	13.15 A
Rating current 10°C according to IEC 60947	12.58 A
Rating current 15°C according to IEC 60947	12.29 A
Rating current 20°C according to IEC 60947	11.99 A
Rating current 25°C according to IEC 60947	11.68 A
Rating current 30°C according to IEC 60947	11.36 A
Rating current 35°C according to IEC 60947	11.04 A
Rating current 40°C according to IEC 60947	10.7 A
Rating current 45°C according to IEC 60947	10.36 A
Rating current 5°C according to IEC 60947	12.87 A
Rating current 50°C according to IEC 60947	10 A
Rating current 55°C according to IEC 60947	9.43 A
Rating current 60°C according to IEC 60947	8.83 A
Rating current 65°C according to IEC 60947	8.19 A
Rating current 70°C according to IEC 60947	7.49 A
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	12.73 A
Rating current -20°C	12.51 A
Rating current -15°C	12.28 A
Rating current -10°C	12.05 A
Rating current -5°C	11.81 A
Rating current 0°C	11.57 A
Rating current 5°C	11.32 A

Rating current 10°C	11.07 A
Rating current 25°C	10.28 A
Rating current 30°C	10 A
Rating current 35°C	9.61 A
Rating current 40°C	9.21 A
Rating current 45°C	8.78 A
Rating current 50°C	8.33 A
Rating current 55°C	7.86 A
Rating current 60°C	7.36 A
Rating current 65°C	6.82 A
Rating current 70°C	6.24 A

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	70 mm
Frequency	
Frequency	50 to 60 Hz
Power	
Maximum power loss per pole according to the product standard	3 W
Total power loss under IN	8.29 W
Power loss per pole at In	2.1 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	NA

plastic

Type of bottom rail clip for modular devices

Subject to technical modifications

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 mm ²
Connection cross-section at output with screw, for massive conductor	1 / 35 mm
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 35 mm
Connection cross-section of the access with screws, with flexible conductor	1 / 25 mm
Downstream cage clamp delivery status	openeo
Upstream cage clamp delivery status	openeo
Equipment	
Can be accessorized	Ye
With transparent product label holder	Ye
Standards	
European directive WEEE	concerned
Safety	
Protection index IP	IP2(
REACH conform	N
RoHS conform	Ye
Halogen free	No
Use conditions	
Use conditions Operating temperature	-2570 °C
	-2570 °C
Operating temperature Degree of pollution according to IEC 60664 /	
Operating temperature Degree of pollution according to IEC 60664 / IEC 60947-2	:

Temperature of calibration

50 °C