



NCN163



MCB 1P 10kA C-63A 1M

Technical properties

Neutral position	without neutral
Number of protected poles	1
Number of poles	1 F
Type of pole	1 F
Curve	C
Functions	
Concurrently switching N-neutral	Nc
Configuration	
Number of modules	1
Connectivity	
Top connection alignement for modular devices	Aligned termina
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	240 / 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 (Ue min)	12 V
Electric current	
Rated current	63 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 lr
Magnetic regulating currrent	5 / 10 Ir
min/maxi threshold value of the DC magnetic operation	7 / 15 Ir
min/maxi threshold value of the DC thermal	

Rating current -10°C according to IEC 60947	87.69 A
Rating current -15°C according to IEC 60947	89.44 A
Rating current -20°C according to IEC 60947	91.16 A
Rating current -25°C according to IEC 60947	92.84 A
Rating current -5°C according to IEC 60947	85.91 A
Rating current 0°C according to IEC 60947	84.08 A
Rating current 10°C according to IEC 60947	80.31 A
Rating current 15°C according to IEC 60947	78.36 A
Rating current 20°C according to IEC 60947	76.35 A
Rating current 25°C according to IEC 60947	74.29 A
Rating current 30°C according to IEC 60947	73.2 A
Rating current 35°C according to IEC 60947	70.4 A
Rating current 40°C according to IEC 60947	67.9 A
Rating current 45°C according to IEC 60947	65.3 A
Rating current 5°C according to IEC 60947	82.22 A
Rating current 50°C according to IEC 60947	63 A
Rating current 55°C according to IEC 60947	60.2 A
Rating current 60°C according to IEC 60947	57.7 A
Rating current 65°C according to IEC 60947	55.1 A
Rating current 70°C according to IEC 60947	52.6 A
Rated short circuit breaking capacity Icn	
under 230V AC according IEC60898-1	10 kA
Rated ultimate short-circuit breaking capa- city Icu under 230V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capa- city Icu under 240V AC IEC 60947-2	15 kA
Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1	10 kA
Rated ultimate short-circuit breaking capa- city Icu under 220V AC IEC 60947-2	15 kA
Electric current / temperature	
Rating current -25°C	81.04 A
Rating current -20°C	79.57 A
Rating current -15°C	78.07 A
Rating current -10°C	76.54 A
Rating current -5°C	75.05 A
Rating current 0°C	73.54 A
Rating current 5°C	72.03 A
Rating current 10°C	70.52 A
Rating current 25°C	65.95 A
Rating current 30°C	63 A
Rating current 35°C	62.03 A
Rating current 40°C	60.5 A
Rating current 45°C	58.68 A
Rating current 50°C	58.27 A

Rating current 55°C	52.8 A
Rating current 60°C	50.51 A
Rating current 65°C	48.12 A
Rating current 70°C	45.6 A

Current correction factors

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	17.5 mm
Frequency	
Frequency	50 to 60 Hz
Power	
Maximum power loss per pole according to the product standard	13 W
Total power loss under IN	5.73 W
Total power loss under IN Power loss per pole at In	
Power loss per pole at In Endurance	5.73 W
Power loss per pole at In Endurance	5.73 W 4000
Power loss per pole at In Endurance Electric endurance in number of cycles Number of mechanical operations	5.73 W 4000
Power loss per pole at In Endurance Electric endurance in number of cycles Number of mechanical operations Installation, mounting	5.73 W 4000 20000
Power loss per pole at In Endurance Electric endurance in number of cycles Number of mechanical operations Installation, mounting Type of top connection for modular devices	5.73 W 4000 20000 with screw
Power loss per pole at In Endurance Electric endurance in number of cycles Number of mechanical operations Installation, mounting Type of top connection for modular devices Tightening torque	5.73 W 4000 20000 with screw 2,8Nm
Power loss per pole at In Endurance Electric endurance in number of cycles Number of mechanical operations Installation, mounting Type of top connection for modular devices Tightening torque Type of top rail clip for modular devices	5.73 W 4000 20000 with screw 2,8Nm NA
Power loss per pole at In Endurance Electric endurance in number of cycles Number of mechanical operations Installation, mounting Type of top connection for modular devices Tightening torque Type of top rail clip for modular devices	5.73 W 4000 20000 with screw 2,8Nm NA plastic
Endurance Electric endurance in number of cycles Number of mechanical operations Installation, mounting Type of top connection for modular devices Tightening torque Type of top rail clip for modular devices Type of bottom rail clip for modular devices Type of Bottom Connection for modular	5.73 W 5.73 W 4000 20000 with screw 2,8Nm NA plastic Blconnect 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	closed
Upstream cage clamp delivery status	opened
Equipment	
Can be accessorized	Yes
Standards	
Standard text	EN 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
Use conditions	
Operating temperature	-2570 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I ² t	3
Altitude	2000 m
Storage/transport temperature	-2580 °C
temperatur	
Temperature of calibration	30 °C