



NC150A

MCB 1P 10kA C-50A 1M

Technical characteristics

Architecture

Number of protected poles	1
Number of poles	1 P
Curve	C

Functions

Concurrently switching N-neutral	No
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Configuration

Number of modules	1
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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	230 / 400 V
Type of supply voltage	AC
Frequency	50/60 Hz

Voltage

Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V

Electric current

Rated current	50 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	5 / 10 I_n
min/maxi threshold value of the DC magnetic operation	7 / 15 I_n
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 I_n
Breaking capacity on 1 pole for IT 400V NF 60947-2	3 kA
Rated short circuit breaking capacity I_{cn} 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	10 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	10 kA
Electric current / temperature	
Rating current -25°C	64.7 A
Rating current -20°C	63.5 A
Rating current -15°C	62.3 A
Rating current -10°C	61.1 A
Rating current -5°C	59.9 A
Rating current 0°C	58.7 A
Rating current 5°C	57.4 A
Rating current 10°C	56.1 A
Rating current 15°C	54.7 A
Rating current 20°C	53.4 A
Rating current 25°C	52 A
Rating current 30°C	50 A
Rating current 35°C	48.8 A
Rating current 40°C	47.7 A
Rating current 45°C	46.5 A
Rating current 50°C	45.3 A
Rating current 55°C	44.1 A
Rating current 60°C	43 A
Rating current 65°C	41.8 A
Rating current 70°C	40.6 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
Dimensions	
Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	17.5 mm
Frequency	

Subject to technical modifications

Frequency

50 to 60 Hz

Power

Total power loss under IN 5.2 W

Power loss per pole at In 5.2 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

Type of bottom rail clip for modular devices metallic

Type of Bottom Connection for modular devices BIconnect

Top removability for modular devices No

Bottom removability for modular devices No

Connection

Connection cross-section of input and output with screws, for massive conductors 1 / 35 mm²

Connection cross section of access and exit with screws, for flexible conductor 1 / 25 mm²

Type of connection with screw

Standards

Standard text EN 60898-1

Safety

Protection index IP IP20

RoHS conform Yes

Halogen free No

Use conditions

Operating temperature -25...70 °C

Degree of pollution according to IEC 60664 / IEC 60947-2 2

Class of energy limitation I²t 3

Altitude 2000 m

Air humidity protection for all climates

Storage/transport temperature -25...80 °C