Circuit-breaker, 3p, 125A



Part no. NZMC2-A125 271420



General specifications	
Product name	Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
Part no.	NZMC2-A125
EAN	4015082714208
Product Length/Depth	149 millimetre
Product height	184 millimetre
Product width	105 millimetre
Product weight	2.345 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947
Product Tradename	NZM
Product Type	Molded case circuit breaker
Product Sub Type	Thermo-magnetic
Delivery program	
Application	Use in unearthed supply systems at 690 V
Number of poles	Three-pole
Amperage Rating	125 A
Features	Protection unit Motor drive optional
Special features	Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lcn) Rated current = rated uninterrupted current: 125 A
Technical Data - Electrical	
Voltage rating	690 V - 690 V
Rated insulation voltage (Ui)	690 V AC
Rated impulse withstand voltage (Uimp) at auxiliary contacts	6000 V
Rated impulse withstand voltage (Uimp) at main contacts	8000 V
Instantaneous current setting (Ii) - min	750 A
Instantaneous current setting (Ii) - max	1250 A
Overload current setting (Ir) - min	100 A
Overload current setting (Ir) - max	125 A
Short delay current setting (Isd) - min	0 A
Short delay current setting (Isd) - max	0 A
Short-circuit release non-delayed setting - min	750 A
Short-circuit release non-delayed setting - max	1250 A
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz	55 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	36 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz	22.5 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz	9 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 Hz	8 kA
Rated short-circuit making capacity Icm at 240 V, 50/60 Hz	121 kA
Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz	76 kA
Rated short-circuit making capacity Icm at 440 V, 50/60 Hz	63 kA
Rated short-circuit making capacity Icm at 525 V, 50/60 Hz	24 kA
Rated short-circuit making capacity Icm at 690 V, 50/60 Hz	14 kA
Short-circuit total breaktime	< 10 ms
Electrical connection type of main circuit	Screw connection
Isolation	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)

120
Rocker lever
A (IEC/EN 60947-2)
III
3
6500 operations at 415 V AC-3 7500 operations at 415 V AC-1 10000 operations at 400 V AC-1 7500 operations at 690 V AC-1 5000 operations at 690 V AC-3
As required
DIN rail (top hat rail) mounting optional Built-in device fixed built-in technique Fixed
IP20 IP20 (basic degree of protection, in the operating controls area)
IP40 (with insulating surround) IP66 (with door coupling rotary handle)
IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)
Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
20 g (half-sinusoidal shock 20 ms)
0
0
0
Front side
Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity Icn) Rated current = rated uninterrupted current: 125 A
20000 operations
Screw terminal
M8 at rear-side screw connection
16 mm² (1x) at tunnel terminal
27.61 W
-25 °C
70 °C
40 °C
70 °C
Meets the product standard's requirements.
Does not apply, since the entire switchgear needs to be evaluated.
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Is the panel builder's responsibility.

10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

Technical data ETIM 9.0

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss13-27-37-04-09 [AJZ716018]) Rated permanent current lu Α 125 Rated voltage ٧ 690 - 690 Rated short-circuit breaking capacity Icu at 400 V, 50 Hz kΑ 36 100 - 125 Overload release current setting Α Adjustment range short-term delayed short-circuit release 0 - 0 Α Adjustment range undelayed short-circuit release 750 - 1250 Α ۱۸/ 27.6 Power loss Device construction Built-in device fixed built-in technique Integrated earth fault protection No Type of electrical connection of main circuit Screw connection Suitable for DIN rail (top hat rail) mounting No DIN rail (top hat rail) mounting optional Yes 0 Number of auxiliary contacts as normally closed contact 0 Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact 0 With switched-off indicator No No With integrated under voltage release

3

Yes

No

Yes IP20

Front side

Rocker lever

Number of poles

Type of control element

Motor drive integrated

Degree of protection (IP)

Motor drive optional

Position of connection for main current circuit

Complete device with protection unit