DATASHEET - NZMH1-A125



Circuit-breaker, 3p, 125A

Part no. NZMH1-A125

284414

EL Number (Norway) 4363454



General specifications	
Product name	Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
Part no.	NZMH1-A125
EAN	4015082844141
Product Length/Depth	84.5 millimetre
Product height	145 millimetre
Product width	90 millimetre
Product weight	1.023 kilogram
Compliances	RoHS conform
Certifications	IEC 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
Туре	Circuit breaker
Circuit breaker frame type	NZM1
Number of poles	Three-pole
Amperage Rating	125 A
Release system	Thermomagnetic release
Features	Protection unit
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 Icn) Rated current = rated uninterrupted current: 125 A Terminal capacity hint: Up to 95 mm² can be connected depending on the cable manufacturer.
Technical Data - Electrical	
Voltage rating	690 V - 690 V
Voltage rating (DC)	450 V DC
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	6000 V
Instantaneous current setting (li) - min	750 A
Instantaneous current setting (li) - 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	100 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	50 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz	35 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz	10 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 Hz	7.5 kA
Rated short-circuit making capacity Icm at 240 V, 50/60 Hz	220 kA
Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz	220 kA

Rated short-circuit making capacity Icm at 690 V, 50/60 Hz	17 kA
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Short-circuit total breaktime	< 10 ms
Electrical connection type of main circuit Isolation	Frame clamp 500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
Number of operations per hour - max	120
Handle type	Rocker lever
Jtilization category	A (IEC/EN 60947-2)
Overvoltage category	III
Pollution degree	3
Lifespan, electrical	10000 operations at 400 V AC-1 10000 operations at 415 V AC-1 7500 operations at 690 V AC-1
Direction of incoming supply	As required
chnical Data - Mechanical	
Mounting Method	Built-in device fixed built-in technique DIN rail (top hat rail) mounting optional Fixed
Degree of protection	IP20 IP20 (basic degree of protection, in the operating controls area)
Degree of protection (IP), front side	IP40 (with insulating surround) IP66 (with door coupling rotary handle)
Degree of protection (terminations)	IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)
Protection against direct contact	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
Shock resistance	20 g (half-sinusoidal shock 20 ms)
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Position of connection for main current circuit	Front side
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
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 Icn) Rated current = rated uninterrupted current: 125 A Terminal capacity hint: Up to 95 mm² can be connected depending on the cable manufacturer.
Lifespan, mechanical	20000 operations
chnical Data - Mechanical - Terminals	
Standard terminals	Box terminal
Optional terminals	Connection on rear. Screw terminal. Tunnel terminal
Terminal capacity (control cable)	0.75 mm ² - 1.5 mm ² (2x) 0.75 mm ² - 2.5 mm ² (1x)
Terminal capacity (aluminum solid conductor/cable)	10 mm 2 - 16 mm 2 (1x) direct at switch rear-side connection 16 mm 2 (1x) at tunnel terminal 10 mm 2 - 16 mm 2 (2x) direct at switch rear-side connection
Terminal capacity (aluminum stranded conductor/cable)	$25~\text{mm}^2$ - $35~\text{mm}^2$ (2x) direct at switch rear-side connection $25~\text{mm}^2$ - $35~\text{mm}^2$ (1x) direct at switch rear-side connection $25~\text{mm}^2$ - $95~\text{mm}^2$ (1x) at tunnel terminal
Terminal capacity (copper busbar)	Max. 16 mm x 5 mm direct at switch rear-side connection Min. 12 mm x 5 mm direct at switch rear-side connection M6 at rear-side screw connection
Terminal capacity (copper solid conductor/cable)	10 mm ² - 16 mm ² (1x) at box terminal 10 mm ² - 16 mm ² (1x) direct at switch rear-side connection 16 mm ² (1x) at tunnel terminal 6 mm^2 - 16 mm^2 (2x) at box terminal 6 mm^2 - 16 mm^2 (2x) at box terminal 6 mm^2 - 16 mm^2 (2x) direct at switch rear-side connection
Terminal capacity (copper stranded conductor/cable)	$25~\text{mm}^2$ (2x) direct at switch rear-side connection $6~\text{mm}^2$ - $25~\text{mm}^2$ (2x) at box terminal $10~\text{mm}^2$ - $70~\text{mm}^2$ (1x) at box terminal $25~\text{mm}^2$ - $95~\text{mm}^2$ (1x) at 1-hole tunnel terminal $10~\text{mm}^2$ - $70~\text{mm}^2$ (1x) direct at switch rear-side connection
Terminal capacity (copper strip)	Min. 2 segments of 9 mm x 0.8 mm at box terminal Max. 9 segments of 9 mm x 0.8 mm at box terminal

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observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. Additional information	10.11 Short-circuit rating	
Additional information leaflet (IL) is observed.	10.12 Electromagnetic compatibility	
	10.13 Mechanical function	
Functions System and cable protection	Additional information	
	Functions	System and cable protection

Technical data ETIM 9.0

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

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	А	125
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	50
Overload release current setting	А	100 - 125
Adjustment range short-term delayed short-circuit release	А	0 - 0
Adjustment range undelayed short-circuit release	Α	750 - 1250
Power loss	W	26.7
Device construction		Built-in device fixed built-in technique
Integrated earth fault protection		No
Type of electrical connection of main circuit		Frame clamp
Suitable for DIN rail (top hat rail) mounting		No
DIN rail (top hat rail) mounting optional		Yes
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		0
With switched-off indicator		No
With integrated under voltage release		No
Number of poles		3

Position of connection for main current circuit	Front side
Type of control element	Rocker lever
Complete device with protection unit	Yes
Motor drive integrated	No
Motor drive optional	No
Degree of protection (IP)	IP20