## Circuit-breaker, 3p, 125A



Part no. NZMB2-AF125-NA 269166

General specifications	
Product name	Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
Part no.	NZMB2-AF125-NA
EAN	4015082691660
Product Length/Depth	149 millimetre
Product height	195 millimetre
Product width	105 millimetre
Product weight	2.391 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947 UL listed CE marking UL (Category Control Number DIVQ) CSA certified IEC CSA-C22.2 No. 5-09 UL (File No. E31593) CSA (Class No. 1432-01) UL 489 Specially designed for North America CSA (File No. 22086) IEC 60947-2 UL/CSA
Product Tradename	NZM
Product Type	Molded case circuit breaker
Product Sub Type	Thermo-magnetic
Delivery program	
Application	Branch circuits, feeder circuits Use in unearthed supply systems at 440 V
Туре	Circuit breaker
Circuit breaker frame type	NZM2
Number of poles	Three-pole
Amperage Rating	125 A
Release system	Thermomagnetic release
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 Icn) Rated current = rated uninterrupted current: 125 A Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. Fixed overload releases Ir
Technical Data - Electrical	
Voltage rating	440 V - 440 V
Rated operating voltage Ue (UL) - max	600Y/347 V, 480 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
Rated operational current	300 A (380/400 V AC-1, making and breaking capacity) 300 A (415 V AC-1, making and breaking capacity)
Instantaneous current setting (li) - min	750 A
Instantaneous current setting (Ii) - max	1250 A
Overload current setting (Ir) - min	125 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	30 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	25 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz	18.5 kA
Rated short-circuit making capacity Icm at 240 V, 50/60 Hz	63 kA
Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz	53 kA
Rated short-circuit making capacity Icm at 440 V, 50/60 Hz	53 kA
Short-circuit total breaktime	< 10 ms
Low-voltage HBC fuse - max	355 A gG/gL
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)
Number of operations per hour - max	120
Handle type	Rocker lever
Utilization category	A (IEC/EN 60947-2)
Overvoltage category	
Pollution degree	3
Lifespan, electrical	7500 operations at 400 V AC-1 6500 operations at 415 V AC-3
Direction of incoming supply	As required
Technical Data - Mechanical	
Mounting Method	Built-in device fixed built-in technique Fixed
Degree of protection	DIN rail (top hat rail) mounting optional  IP20 (basic degree of protection, in the operating controls area)  IP20
Degree of protection (IP), front side	IP66 (with door coupling rotary handle) IP40 (with insulating surround)
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 q (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, constant, to IEC 60068-2-78
, ,	Damp heat, cyclic, to IEC 60068-2-30
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 Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. Fixed overload releases Ir
Lifespan, mechanical	20000 operations
Fechnical Data - Mechanical - Terminals	
Standard terminals	Screw terminal
Terminal capacity (control cable)	16 mm² - 18 mm² (2x) 14 mm² - 18 mm² (1x)
Terminal capacity (aluminum solid conductor/cable)	16 mm² (1x) at tunnel terminal
Terminal capacity (copper busbar)	M8 at rear-side screw connection Min. 16 mm x 5 mm direct at switch rear-side connection Max. 20 mm x 5 mm direct at switch rear-side connection
Terminal capacity (copper solid conductor/cable)	6 mm <sup>2</sup> - 11 mm <sup>2</sup> (1x) direct at switch rear-side connection 6 mm <sup>2</sup> - 12 mm <sup>2</sup> (1x) at box terminal 16 mm <sup>2</sup> (1x) at tunnel terminal
Terminal capacity (copper stranded conductor/cable)	4 mm <sup>2</sup> - 350 mm <sup>2</sup> (1x) at box terminal 4 mm <sup>2</sup> - 3/0 mm <sup>2</sup> (1x) direct at switch rear-side connection 4 mm <sup>2</sup> - 350 mm <sup>2</sup> (1x) at tunnel terminal
Terminal capacity (copper strip)	Max. 10 segments of 16 mm x 0.8 mm at box terminal  Max. 10 segments of 16 mm x 0.8 mm at rear-side connection (punched)  Min. 2 segments of 16 mm x 0.8 mm at rear-side connection (punched)  Min. 2 segments of 9 mm x 0.8 mm at box terminal

Retord operational current for specified heat dissipation (In)  Equipment heat dissipation, current-dependent Ambient operating temperature - min Ambient operating temperature - max Ambient operating temperature - max Ambient storage temperatur	Design verification as per IEC/EN 61439 - technical data	
Ambient operating temperature - min Ambient operating temperature - max Ambient operating temperature - max Ambient storage temperature - max 70 °C  Design verification as por IEC/EN 61439  10.22 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Verification of resistance of insulating materials to normal heat 10.2.3 Resist of insul. mat. to abnormal heat/fire by internal elect. effects Meets the product standard's requirements. 10.2.4 Resistance to ultra-violet (IVI) radiation Meets the product standard's requirements. 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.6 Inscriptions Meets the product standard's requirements. 10.2.8 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 10.6 Internal electrical circuits and components Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and components Does not apply, since the entire switchgear needs to be evaluated. 10.8 Connections for external conductors Does not apply, since the entire switchgear needs to be evaluated. 10.9 Internal electrical circuits and components Does not apply, since the entire switchgear needs to be evaluated. 10.8 Connections for external conductors Does not apply, since the entire switchgear needs to be evaluated. 10.9 Internal electrical circuits and components Does not apply, since the entire switchgear needs to be evaluated. 10.9 Internal electrical circuits and components Does not apply, since the entire switchgear needs to be evaluated. 10.9 Internal electrical circuits and	Rated operational current for specified heat dissipation (In)	125 A
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10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Functions  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  The panel builder's responsibility. The specifications for the switchgear must be observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  System and cable protection	10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical information  Functions  10.15 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  System and cable protection	10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.8 Connections for external conductors  1s the panel builder's responsibility.  10.9.2 Power-frequency electric strength  1s the panel builder's responsibility.  10.9.3 Impulse withstand voltage  1s the panel builder's responsibility.  10.9.4 Testing of enclosures made of insulating material  1s the panel builder's responsibility.  1nunctions  Is the panel builder's responsibility.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  In the device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  Additional information  Functions  System and cable protection	10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Functions  10.15 the panel builder's responsibility. The specifications for the switchgear must be observed.  System and cable protection	10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Additional information  Functions  Is the panel builder's responsibility.  1s the panel builder is responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  System and cable protection	10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Additional information  Functions  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  15 the panel builder's responsibility. The specifications for the switchgear must be observed.  16 the panel builder's responsibility. The specifications for the switchgear must be observed.  The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  System and cable protection	10.9.2 Power-frequency electric strength	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.  Additional information  Functions  System and cable protection	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
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.  Additional information System and cable protection	10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
observed.  10.12 Electromagnetic compatibility  10.13 Mechanical function  Additional information  Functions  observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  System and cable protection	10.10 Temperature rise	
observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  Additional information  Functions  System and cable protection	10.11 Short-circuit rating	
Additional information Functions System and cable protection	10.12 Electromagnetic compatibility	
Functions System and cable protection	10.13 Mechanical function	
	Additional information	
	Functions	

## **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	Α	125
Rated voltage	V	440 - 440
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	25
Overload release current setting	Α	125 - 125
Adjustment range short-term delayed short-circuit release	А	0 - 0
Adjustment range undelayed short-circuit release	Α	750 - 1250
Power loss	W	27.6
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
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	Yes
Degree of protection (IP)	IP20