

Circuit-breaker, 4p, 125A



Part no. **NZMB2-4-A125**
265847

General specifications		
Product name		Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
Part no.		NZMB2-4-A125
EAN		4015082658472
Product Length/Depth		149 millimetre
Product height		184 millimetre
Product width		140 millimetre
Product weight		3 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 440 V
Number of poles		Four-pole
Amperage Rating		125 A
Features		Protection unit Motor drive optional
Special features		Rated current = rated uninterrupted current: 125 A Set value in neutral conductor is synchronous with set value I _r of main pole.
Technical Data - Electrical		
Voltage rating		440 V - 440 V
Current rating of neutral conductor		200% of phase conductor
Instantaneous current setting (I _i) - min		6 A
Instantaneous current setting (I _i) - max		10 A
Overload current setting (I _r)		100 A - 125 A
Overload current setting (I _r) - min		100 A
Overload current setting (I _r) - max		125 A
Short delay current setting (I _{sd}) - min		0 A
Short delay current setting (I _{sd}) - 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 I _{cs} (IEC/EN 60947) at 400/415 V, 50/60 Hz		25 kA
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)
Handle type		Rocker lever
Technical Data - Mechanical		
Mounting Method		Built-in device fixed built-in technique DIN rail (top hat rail) mounting optional Fixed
Degree of protection		IP20
Protection against direct contact		Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
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		Rated current = rated uninterrupted current: 125 A

		Set value in neutral conductor is synchronous with set value I_r of main pole.
Technical Data - Mechanical - Terminals		
Standard terminals		Screw 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 mm ² - 50 mm ² (1x) direct at switch rear-side connection 25 mm ² - 50 mm ² (2x) direct at switch rear-side connection 25 mm ² - 185 mm ² (1x) at tunnel terminal
Terminal capacity (copper busbar)		Max. 20 mm x 5 mm direct at switch rear-side connection Min. 16 mm x 5 mm direct at switch rear-side connection M8 at rear-side screw connection
Terminal capacity (copper solid conductor/cable)		4 mm ² - 16 mm ² (1x) direct at switch rear-side connection 16 mm ² (1x) at tunnel terminal 4 mm ² - 16 mm ² (2x) at box terminal 4 mm ² - 16 mm ² (2x) direct at switch rear-side connection 4 mm ² - 16 mm ² (1x) at box terminal
Terminal capacity (copper stranded conductor/cable)		25 mm ² - 185 mm ² (1x) direct at switch rear-side connection 25 mm ² - 185 mm ² (1x) at box terminal 25 mm ² - 70 mm ² (2x) at box terminal 25 mm ² - 70 mm ² (2x) direct at switch rear-side connection 25 mm ² - 185 mm ² (1x) at 1-hole tunnel terminal
Terminal capacity (copper strip)		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 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)
Design verification as per IEC/EN 61439 - technical data		
Equipment heat dissipation, current-dependent		27.61 W
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		70 °C
Ambient storage temperature - min		40 °C
Ambient storage temperature - max		70 °C
Design verification as per IEC/EN 61439		
10.2.2 Corrosion resistance		Meets the product standard's requirements.
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		Meets the product standard's requirements.
10.2.3.3 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 (UV) 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 Mechanical impact		Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions		Meets the product standard's requirements.
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 Incorporation of switching devices and components		Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections		Is the panel builder's responsibility.
10.8 Connections for external conductors		Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength		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.

Technical data ETIM 9.0

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

Rated permanent current I _u	A	125
Rated voltage	V	440 - 440
Rated short-circuit breaking capacity I _{cu} at 400 V, 50 Hz	kA	25
Overload release current setting	A	100 - 125
Adjustment range short-term delayed short-circuit release	A	0 - 0
Adjustment range undelayed short-circuit release	A	6 - 10
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		4
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