Circuit-breaker, 3p, 250A



Part no. NZMB2-A250-KCU-NA 113029

General specifications	
Product name	Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
Part no.	NZMB2-A250-KCU-NA
EAN	4015081125692
Product Length/Depth	184 millimetre
Product height	149 millimetre
Product width	105 millimetre
Product weight	2.652 kilogram
Compliances	RoHS conform
Certifications	CSA certified UL (File No. E31593) UL489 Specially designed for North America CSA-C22.2 No. 5-09 CSA (Class No. 1432-01) IEC60947-2 CE marking CSA (File No. 22086) DIVQ UL listed
Product Tradename	NZM
Product Type	Molded case circuit breaker
Product Sub Type	Thermo-magnetic
Delivery program	
Application	Feeder circuits, branch circuits
Number of poles	Three-pole
Amperage Rating	250 A
Features	Protection unit Motor drive optional
Technical Data - Electrical	
Voltage rating	440 V - 440 V
Rated operating voltage Ue (UL) - max	600Y/347 V, 480 V
Instantaneous current setting (Ii) - min	200 A
Instantaneous current setting (Ii) - max	250 A
Overload current setting (Ir) - min	200 A
Overload current setting (Ir) - max	250 A
Short delay current setting (Isd) - min	0 A
Short delay current setting (Isd) - max	0 A
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	25 kA
Electrical connection type of main circuit	Other
Handle type	Rocker lever
Technical Data - Mechanical	
Mounting Method	DIN rail (top hat rail) mounting optional Built-in device fixed built-in technique
Degree of protection	IP20
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
Design verification as per IEC/EN 61439 - technical data	
Equipment heat dissipation, current-dependent	58.13 W
Design verification as per IEC/EN 61439	00.10 11
Design vermeation as per IEO/EN 01433	

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.
additional information	
Functions	Current limiting circuit breaker

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 voltage Rated voltage Rated short-circuit breaking capacity lcu at 400 V, 50 Hz Adjustment range short-term delayed short-circuit release Adjustment range undelayed short-circui			
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz kA 25 Overload release current setting A 200 - 250 Adjustment range short-terir delayed short-circuit release A 00 - 0 Adjustment range undelayed short-circuit release A 200 - 250 Power loss W 58.1 Device construction Built-in device fixed built-in technique Integrated earth fault protection No Type of electrical connection of main circuit Other Suitable for DIN rail (top hat rail) mounting Yes Number of auxiliary contacts as normally closed contact O Number of auxiliary contacts as normally open contact O With switched-off indicator No With switched-off indicator No With integrated under voltage release No Number of poles 3 Position of connection for main current circuit Font side Type of control element Rose relever Complete device with protection unit Yes Motor drive integrated No Motor drive integrated No <td< td=""><td>Rated permanent current lu</td><td>Α</td><td>250</td></td<>	Rated permanent current lu	Α	250
Overload release current setting A 200 - 250 Adjustment range short-term delayed short-circuit release A 0 - 0 Adjustment range undelayed short-circuit release A 200 - 250 Power loss W 58.1 Device construction Built-in device fixed built-in technique Integrated earth fault protection No Type of electrical connection of main circuit Other Suitable for DIN rail (top hat rail) mounting Yes Number of auxiliary contacts as normally closed contact 0 Number of auxiliary contacts as normally open 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 integrated Yes	Rated voltage	V	440 - 440
Adjustment range short-term delayed short-circuit release A 0 - 0 Adjustment range undelayed short-circuit release A 200 - 250 Power loss W 58.1 Device construction Built-in device fixed built-in technique Integrated earth fault protection No Type of electrical connection of main circuit Other Suitable for DIN rail (top hat rail) mounting Yes DIN rail (top hat rail) mounting optional Yes Number of auxiliary contacts as normally closed 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	Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	25
Adjustment range undelayed short-circuit release Power loss Device construction Device construction Device construction Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional DIN rail (top hat rail) moun	Overload release current setting	Α	200 - 250
Power loss Device construction Integrated earth fault protection Integrated earth fault protection Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting potional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Number of pauxiliary contacts as change-over contact Number of poles No	Adjustment range short-term delayed short-circuit release	Α	0 - 0
Device construction Built-in device fixed built-in technique No Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact No With switched-off indicator No With integrated under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional	Adjustment range undelayed short-circuit release	Α	200 - 250
Integrated earth fault protection Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional No Yes Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact No With integrated under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional	Power loss	W	58.1
Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact No With switched-off indicator No With integrated under voltage release No No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional	Device construction		Built-in device fixed built-in technique
Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of poss No	Integrated earth fault protection		No
DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact No With switched-off indicator With integrated under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional Ne Yes Yes Yes No No No No No No No No No N	Type of electrical connection of main circuit		Other
Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact No With switched-off indicator With integrated under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional O O O No No No No No No No N	Suitable for DIN rail (top hat rail) mounting		No
Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact No With switched-off indicator With integrated under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional O O O O O O O O O O O O O	DIN rail (top hat rail) mounting optional		Yes
Number of auxiliary contacts as change-over contact With switched-off indicator With integrated under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional O O O O O O O O O O O O O	Number of auxiliary contacts as normally closed contact		0
With switched-off indicator With integrated under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional	Number of auxiliary contacts as normally open contact		0
With integrated under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive optional No	Number of auxiliary contacts as change-over contact		0
Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive optional 3 Rocker lever Rocker lever Yes No Yes	With switched-off indicator		No
Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive optional Front side Rocker lever Yes No Yes	With integrated under voltage release		No
Type of control element Complete device with protection unit Motor drive optional Rocker lever Yes No Yes	Number of poles		3
Complete device with protection unit Yes Motor drive integrated Motor drive optional Yes	Position of connection for main current circuit		Front side
Motor drive integrated No Yes	Type of control element		Rocker lever
Motor drive optional Yes	Complete device with protection unit		Yes
	Motor drive integrated		No
Degree of protection (IP) IP20	Motor drive optional		Yes
	Degree of protection (IP)		IP20