Circuit-breaker, 3p, 100A, box terminals



Part no. NZMB2-A100-BT-NA 107780

Protect Compiler Front Control	General specifications	
ENA Product langin(Pulgath Product langin(Pulgath Product width Product Pulgath	Product name	Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
Product Length Clogation Product veight Product veight Product veight Complainnes Complain	Part no.	NZMB2-A100-BT-NA
Product Neight Product viriling Product viriling Product viriling Product viriling Product viriling Product Continues Currifications Currific	EAN	4015081074273
Product weight 105 millimeter Product weight 2.346 bilogram Campliances CSA certified Certifications CSA certified CEAL certified CSA certified CEAL certified CSA certified CEAL CERTIFICATION No. 1422 (1) CSA Certified CEAL CERTIFICATION No. 1422 (1) CSA CERTIFIED LOCEN REPAIR CSA CERTIFIED CEAL CERTIFICATION No. 1422 (1) CSA CERTIFIED LOCEN REPAIR CSA CERTIFIED Product Tradmame NZM Product Tradmame NZM Product Type Modeled case circuit breaker Product Type Modeled case circuit breaker Product Sub Type Therma-magnetic Delivery program Sex cell y designed for North America Type Curvat breaker frame type Circuit breaker frame type NXM Number of godes Three-pole Amperage flating 108 A Features Protein trained type Special features Maximum back-log flace, the segected shert-circuit current surface flating sherric protein unit	Product Length/Depth	149 millimetre
Product weight Confinences Certifications Circle (Fine No. 2008) CSA (Case No. 1352-11)	Product height	195 millimetre
Conspilances Cartifications Case certified Case stroke and C	Product width	105 millimetre
Lerifications Canality and a comment of the experiment of the exp	Product weight	2.345 kilogram
CEM mixing CSA (File No. 2288) CSA (Clas RA. 1422-01) ECR MOSAY CSA-6722 No. 1430-01 Listed IEC 6008-1-7 L	Compliances	RoHS conform
Product Sub Type Product Sub Type Delivery program Application Application Application Application Application Application Application Circuit breaker frame type Circuit breaker frame type Circuit breaker frame type Ambergage Raing Release system Features Ambergage Raing Robert Special features Ambergage Raing Features Ambergage Raing Features Ambergage Raing Robert Special features Ambergage Raing Ambergage Raing Ambergage Raing Robert Special features Ambergage Raing Ambergage Raing Ambergage Raing Robert Special features Ambergage Raing Ambergage Raing Ambergage Raing Ambergage Raing Robert Special features Ambergage Raing Ambergage Rain	Certifications	CE marking CSA (File No. 22086) CSA (Class No. 1432-01) UL 489 IEC/EN 60947 CSA-C22.2 No. 5-09 UL listed IEC 60947-2 UL (Category Control Number DIVQ) UL (File No. E31593) IEC Specially designed for North America
Product Sub Type Thermo-magnetic Delivery program Ease of circuits feeder circuits. Application Use in unearthed supply systems at 440 V Type Circuit breaker Circuit breaker frame type NZM2 Number of poles Three-pole Amperage Rating 100 A Release system Thermomagnetic release Features Motor drive optional Protection unit Features Motor drive optional Protection unit Special features Motor drive optional Protection unit Special features Motor drive optional Protection unit Voltage rating 4 We very feature of the switching capacity (100 A) Switches confron to ULVs as well as the IEC regulations. IEC switching performance values are contained on the rating plate. Adjustable overload releases in Technical Data - Electrical 440 V - 440 V Voltage rating 400 V - 440 V Rated insulation voltage (UI) - max 6000 V Rated insulation voltage (UII) at auxiliary contacts 6000 V Rated impulse withstand voltage (Uimp) at auxiliary contacts 6000 V Rated impulse withstand voltage (Uimp) at main contacts 300 A (380/400 V AC-1, making and breaking capacity)<	Product Tradename	NZM
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Application Type Circuit breaker Circuit breaker frame type Number of poles Amperage Rating Release system Features Pastures Amount of poles Amount of poles Amount of poles Release system Features Amount of rive optional protection unit Protection unit Amount of poles Amount of poles Amount of poles Features Amount of protection unit Amount of prote	Product Sub Type	Thermo-magnetic
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Number of poles Amperage Rating 100 A Release system Features Motor drive optional Protection unit Special features Special f	Туре	Circuit breaker
Amperage Rating Release system Features Motor drive optional Protection unit Special features Spe	Circuit breaker frame type	NZM2
Release system Features Motor drive optional Protection unit Asximum 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 (rch) Rate durrent = rated uninterrupted current: 100 A Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. Adjustable overload releases Ir Technical Data - Electrical Voltage rating Adjustable overload releases Ir Rated operating voltage Ue (UL) - max 6007/347 V, 480 V Rated insulation voltage (Uinp) at auxiliary contacts Rated impulse withstand voltage (Uimp) at main contacts Rated operational current 300 A (315 V AC-1, making and breaking capacity) 100 A (660-990 V AC-3, making and breaking capacity) 100 A (660-990 V AC-3, making and breaking capacity) 100 A (660-990 V AC-3, making and breaking capacity) 100 A (600-990 V AC-3, making and breaking capaci	Number of poles	Three-pole
Motor drive optional Protection unit Protect	Amperage Rating	100 A
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Instantaneous current setting (Ii) - max Overload current setting (Ir) - min 80 A Overload current setting (Ir) - max 100 A Short delay current setting (Isd) - min 0 A		300 A (415 V AC-1, making and breaking capacity) 300 A (380/400 V AC-1, making and breaking capacity)
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Overload current setting (Ir) - max 100 A Short delay current setting (Isd) - min 0 A	Instantaneous current setting (li) - max	1000 A
Short delay current setting (Isd) - min 0 A	Overload current setting (Ir) - min	80 A
	Overload current setting (Ir) - max	100 A
Short delay current setting (Isd) - max 0 A	Short delay current setting (Isd) - min	0 A
	Short delay current setting (Isd) - max	0 A

Short-circuit release non-delayed setting - min	600 A
Short-circuit release non-delayed setting - max	1000 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	Frame clamp
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	III
Pollution degree	3
Lifespan, electrical	6500 operations at 415 V AC-3 7500 operations at 400 V AC-1
Direction of incoming supply	As required
Technical Data - Mechanical	
Mounting Method	DIN rail (top hat rail) mounting optional Built-in device fixed built-in technique Fixed
Degree of protection	IP20 IP20 (basic degree of protection, in the operating controls area)
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 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: 100 A Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. Adjustable overload releases Ir
Lifespan, mechanical	20000 operations
Technical Data - Mechanical - Terminals	
Standard terminals	Box terminal
Terminal capacity (control cable)	14 mm ² - 18 mm ² (1x) 16 mm ² - 18 mm ² (2x)
Terminal capacity (aluminum solid conductor/cable)	16 mm² (1x) at tunnel terminal
Terminal capacity (copper busbar)	Min. 16 mm x 5 mm direct at switch rear-side connection M8 at rear-side screw connection Max. 20 mm x 5 mm direct at switch rear-side connection
Terminal capacity (copper solid conductor/cable)	16 mm² (1x) at tunnel terminal 6 mm² - 12 mm² (1x) at box terminal 6 mm² - 11 mm² (1x) direct at switch rear-side connection
Terminal capacity (copper stranded conductor/cable)	4 mm² - 350 mm² (1x) at tunnel terminal 4 mm² - 3/0 mm² (1x) direct at switch rear-side connection 4 mm² - 350 mm² (1x) at box terminal
Terminal capacity (copper strip)	Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at box terminal

Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	100 A
Equipment heat dissipation, current-dependent	25.65 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.
Additional information	
Functions	Current limiting circuit breaker 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])

protection (eci@ss13-27-37-04-09 [AJZ/16018])		
Rated permanent current lu	Α	100
Rated voltage	V	440 - 440
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	25
Overload release current setting	Α	80 - 100
Adjustment range short-term delayed short-circuit release	Α	0 - 0
Adjustment range undelayed short-circuit release	А	600 - 1000
Power loss	W	25.7
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	Yes
Degree of protection (IP)	IP20