Circuit-breaker, 3p, 25A, box terminals



Part no. NZMH2-A25-BT-NA 107798

Product name	Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
Part no.	NZMH2-A25-BT-NA
EAN	4015081074457
Product Length/Depth	149 millimetre
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Product height	195 millimetre 105 millimetre
Product width	
Product weight	2.345 kilogram
Compliances Certifications	RoHS conform CSA certified Specially designed for North America IEC CSA (File No. 22086) CE marking IEC 60947-2 UL 489 UL listed UL (File No. E31593) CSA (Class No. 1432-01) UL (Category Control Number DIVQ) IEC/EN 60947 CSA-C22.2 No. 5-09 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 690 V
Туре	Circuit breaker
Circuit breaker frame type	NZM2
Number of poles	Three-pole
Amperage Rating	25 A
Release system	Thermomagnetic release
Features	Motor drive optional 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-circu breaking capacity Icn) Rated current = rated uninterrupted current: 25 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
Fechnical Data - Electrical	
Voltage rating	690 V - 690 V
Rated operating voltage Ue (UL) - max	600Y/347 V, 480 V
Rated insulation voltage (Ui)	1000 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 (415 V AC-1, making and breaking capacity) 25 A (660-690 V AC-3, making and breaking capacity) 300 A (380/400 V AC-1, making and breaking capacity) 25 A (690 V AC -1, making and breaking capacity)
Rated short-time withstand current (t = 0.3 s)	1.9 kA
Rated short-time withstand current (t = 1 s)	1.9 kA
Instantaneous current setting (Ii) - min	350 A
Instantaneous current setting (li) - max	350 A
Overload current setting (Ir) - min	20 A

Overload current setting (Ir) - max	25 A
Short delay current setting (Isd) - min	0 A
Short delay current setting (Isd) - max	0 A
Short-circuit release non-delayed setting - min	350 A
Short-circuit release non-delayed setting - max	350 A
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz	150 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	150 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz	130 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz	37.5 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 Hz	5 kA
Rated short-circuit making capacity Icm at 240 V, 50/60 Hz	330 kA
Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz	330 kA
Rated short-circuit making capacity Icm at 440 V, 50/60 Hz	286 kA
Rated short-circuit making capacity Icm at 525 V, 50/60 Hz	105 kA
Rated short-circuit making capacity Icm at 690 V, 50/60 Hz	40 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	5000 operations at 690 V AC-3 6500 operations at 400 V AC-3 10000 operations at 400 V AC-1 6500 operations at 415 V AC-3 7500 operations at 690 V AC-1
Direction of incoming supply	As required
Technical 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: 25 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

observed.		Max. 20 mm x 5 mm direct at switch rear-side connection M8 at rear-side screw connection
A mill - 30 mill (1) but but terminal capacity (copper strip) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punched) Max. 10 segments of 15 mm x 0.8 mm at trans-side connection (punch	Terminal capacity (copper solid conductor/cable)	6 mm ² - 11 mm ² (1x) direct at switch rear-side connection
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10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 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 10.12 Electromagnetic compatibility 10.13 Mechanical function Functions 10.14 Clearances and creepage distances Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. Is the panel builder's responsibility. The specifications for the switchgear must to 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	10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
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10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.1 Is the panel builder's responsibility. 10.9.2 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 10.13 Mechanical function 10.14 Meditional information Functions Is the panel builder's responsibility. Is the panel builder's responsibility. The panel builder's responsibility. 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. Current limiting circuit breaker	10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
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Additional information Functions Leaflet (IL) is observed. Current limiting circuit breaker	10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
Functions Current limiting circuit breaker		
	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])

protection (eci@ss13-27-37-04-09 [AJZ/16018])		
Rated permanent current lu	Α	25
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	150
Overload release current setting	Α	20 - 25
Adjustment range short-term delayed short-circuit release	Α	0 - 0
Adjustment range undelayed short-circuit release	Α	350 - 350
Power loss	W	5.9
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