## DATASHEET - NZMN1-AF25-NA

## Circuit-breaker, 3p, 25A

Part no.

NZMN1-AF25-NA 281566



Product sameEaton Moeiler series NZM molided case circuit breaker thermo-magneticPart no.NZMN1-A225-NAEAM400582115660Product height68 millimetreProduct width165 millistereProduct width165 millistereProduct width165 millistereCompliances644 kilgparnCompliances645 kilgparnProduct wight645 kilgparnCompliances645 kilgparnProduct wight645 kilgparnProduct wight645 kilgparnProduct Samphare Kill645 kilgparnProduct Samphare Kill645 kilgparnProduct Samphare Kill645 kilgparnProduct Samphare Kill645 kilgparnProduct Tadename645 kilgparnProduct Tadename645 kilgparnProduct Tadename645 killppaProduct Tadename645 killppa<	General specifications	
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Product Type       Moded case circuit breaker         Product Sub Type       Termo-nagnetic         Delivery program       Image: Circuit breaker         Application       Circuit breaker frame type         Type       Circuit breaker frame type         Circuit breaker frame type       Circuit breaker frame type         Amberage Rating Orden       Terme-pole         Amberage Rating Circuit breaker frame type       Terme-pole         Release system       Terme-pole         Release system       Forte-constant circuit breaker frame type         Postection unit       Terme-pole         Release system       Forte-constant circuit circuit currents at the installation tortexpected short-circuit currents at the installation contexpected short-circuit currents at the installation contexpected short-circuit currents at the system care at the installation contexpected short-circuit currents at the system care at the installation contexpected short-circuit currents at the system care at the installation contexpected short-circuit currents at the system care at the installation contexpected short-circuit currents at the installation contexpected short-circuit currents at the system care at the installation contexpected short-circuit currents at the installation contexpected short-circuit currents at the installation contexpected short-circuit currents at the installation contexpected short-circuit curents at the installation contexpected short	Certifications	CSA certified Specially designed for North America CSA-C22.2 No. 5-09 UL 489 UL (Category Control Number DIVQ) CSA (Class No. 1432-01) IEC IEC 60947-2 CSA (File No. 22086) UL (File No. E31593) UL (isted UL/CSA
Product Sik Type       Thermo-magnetic         Polutery program       Branch circuits (super orizuits (super orizui	Product Tradename	NZM
Delivery gram         Image: state in the state is a state of the stat	Product Type	Molded case circuit breaker
Application       Branch circuits, feeder circuits         Type       Circuit breaker frame type       Circuit breaker         Circuit breaker frame type       Circuit breaker       Circuit breaker frame type         Number of polos       Three-pole       Three-pole         Amperage Rating       E       Fast       Fast         Release system       Foretocin unit       Three-pole         Features       Foretocin unit       Foretocin unit         Special features       Foretocin unit       Foretocin unit         Voltage rating       E       E       E         Voltage rating       E       E       E       E         Voltage rating       E <td< td=""><td>Product Sub Type</td><td>Thermo-magnetic</td></td<>	Product Sub Type	Thermo-magnetic
InteractionUse in unearthed supply systems at 680 VTypeCircuit breakerCircuit breaker frame typeCircuit breakerNumber of polesThrea-poleAmperage RatingSARelease systemFore-poleFeaturesProtection unitSpecial featuresProtection unitSpecial featuresMaximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity) of the circuit breaker (Rated short-circuit currents at the installation location exceed the switching capacity) of the circuit breaker (Rated short-circuit currents at the installation location exceed the switching capacity) of the circuit breaker (Rated short-circuit currents at the installation location exceed the switching capacity) of the circuit breaker (Rated short-circuit current at a unitarrupted current 25 A Switches conform to UUCSA swell as the IEC regulations. IEC switching switches conform to UUCSA swell as the IEC regulations. IEC switching switches conform to UUCSA swell as the IEC regulations. IEC switching switches conform to UUCSA swell as the IEC regulations. IEC switching switches conform to UUCSA swell as the IEC regulations. IEC switching switches conform to UUCSA swell as the IEC regulations. IEC switching switches conform to UUCSA swell as the IEC regulations. IEC switching switches conform to UUCSA swell as the IEC regulations. IEC switching switches capacity (III) maxNotage rating6000 VRated operating voltage (UII) + max6000 VRated operating voltage (UIII) at audilary contacts6000 VRated operating and treaking capacity) 25 A (660 / AC-1, making and treaking capacity) 25 A (660 / AC-1, making and treaking capacity) 25 A (660 / AC	Delivery program	
Circuit breaker frame type       NZM1         Number of poles       Three-pole         Amperage Rating       25 A         Release system       Portection unit         Special features       Portection unit         Special features       Portection unit         Special features       Release system         Voltage rating       Release conform to UL/CSA as well as the IEC regulations. IEC switching capacity of the circuit breaker (Rated short-circuit corrent 5A         Voltage rating       Switchage VUL)- max       Switchage VUL)- max       Switchage VV 277 V         Rated inpulse withstand voltage (Ulinp) at auxiliary contacts       Switchage VV AC-1, making and breaking capacity)       ZS A (ASW40V VA-1, making and breaking capacity)       ZS A (ASW40V VA-1, making and break	Application	
Number of poles       Three-pole         Amperage Rating       25 A         Release system       Thermomagnetic release         Features       Protection unit         Special features       Protection unit         Special features       Sourcement - read unitarrupted current 25 A         Synchical Data - Electrical       Sourcement - read unitarrupted current 25 A         Voltage rating       600 V - 690 V         Rated operating voltage (Ui)       600 V - 690 V         Rated operating voltage (Ui)       600 V - 690 V         Rated insulation voltage (Ui)       600 V - 690 V         Rated insulation voltage (Ui)       600 V - 600 V         Rated operating voltage (Ui)mp) at auxiliary contacts       600 V         Rated insulation voltage (Uinp) at auxiliary contacts       600 V         Rated insulation voltage (Uinp) at auxiliary contacts       600 V         Rated insulation voltage (Uinp) at auxiliary contacts       600 V         Rated insulation voltage (Uinp) at auxiliary contacts       600 V         Rated insulation voltage (Uinp) at auxiliary contacts       600 V         Rated insulation voltage (Uinp) at auxiliary contacts       600 V         Rated insulation voltage (Uinp) at auxiliary contacts       500 A         Instantenous current setting (II) - min       50 A	Туре	Circuit breaker
Amperage Rating       25 A         Release system       Formoagnetic release         Features       Protection unit         Special features       Minimum back-up fuse, if the expected short-circuit currents at the installation. Incation acceed the switching capacity of the circuit breaks (Reted short-circuit breaks (Repectiv) (In))         Reted insulation voltage (UL) - max       EVENDE       EVENDE         Rated insulation voltage (Ui)       690 V - 690 V       690 V - 690 V         Rated insulation voltage (Uinp) at auxiliary contacts       EVENDE       EVENDE         Rated insulation voltage (Uinp) at auxiliary contacts       690 V - 690 V       690 V - 690 V         Rated insulation voltage (Uinp) at auxiliary contacts       EVENDE       EVENDE       EVENDE         Rated insulation voltage (Uinp) at auxiliary contacts       6900 V       6900 V       EVENDE       EVENDE         Rated insulation voltage (Uinp) at auxiliary contacts       EVENDE       <	Circuit breaker frame type	NZM1
Release system         Thermomagnetic release           Features         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-circuit breaker (Rated short-circuit breaker (Rated short-circuit breaker (Rated short-circuit breaker), Rated current - rated uninterrupted current - 25 A switches capacity of the circuit breaker (Rated short-circuit breaker), Rated over antig over a contained on the rating plate. Fixed overlad releases in           Technical Data - Electrical         600 V           Notage rating         600 V 600 V           Rated operating voltage U(UL) - max         600 V           Rated insulation voltage (Uimp) at axiliary contacts         6000 V           Rated inpulse withstand voltage (Uimp) at main contacts         6000 V           Rated operational current         5100 (300/400 V AC-1, making and breaking capacity) (25 A (690 V AC -1, making and breaking capacity) (25 A (690 V AC -1, making and breaking capacity) (25 A (690 V AC -1, making and breaking capacity) (25 A (690 V AC -1, making and breaking capacity) (25 A (690 V AC -1, making and breaking capacity) (25 A (690 V AC -1, making and breaking capacity) (25 A (690 V AC -1, making and breaking capacity) (25 A (690 V AC -1, making and breaking capacity) (25 A (690 V AC -1, making and breaking capacity) (25 A (690 V AC -1, making and breaking capacity) (25 A (690 V AC -1, making and breaking capacity) (25 A (690 V AC -1, making and breaking capacity) (25 A (690 V AC -1, making and breaking capacity) (25 A (690 V AC -1, making and breaking capacity) (25 A (690 V AC -1, making and bre	Number of poles	Three-pole
FeaturesProtection unitSpecial featuresMaximum 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) of the circuit breaker (Rated short-circuit breaking capacity) contactsRated insulation voltage (Uin) + max6000 VRated insulation voltage (Uinp) at auxiliary contacts6000 VRated operational current staf at preaking capacity) z5A (4600 4800 V AC-1, making and breaking capacity) z5A (4600 4800 V AC-1, making	Amperage Rating	25 A
Special features         Maximum back-up fuse, if the expected short-circuit urrents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit burner) switches conform to UL/SA as well as the ISC regulations. IEC switches of 00 V AC3           Rated uprating voltage (Ui)         Rated insultand voltage (Uin) at axiliary contacts         Maximum back-up fuse, Fixed over (Alto) VAC1, making and breaking capacity)	Release system	Thermomagnetic release
Instantaneous current setting (li) - maix         Instantaneous cur	Features	Protection unit
Voltage rating       690 V - 690 V         Rated operating voltage Ue (UL) - max       690 V - 690 V         Rated insulation voltage (Ui)       690 V - 690 V         Rated insulation voltage (Uimp) at auxiliary contacts       690 V - 690 V         Rated impulse withstand voltage (Uimp) at auxiliary contacts       600 V         Rated operational current       600 V         Rated operational current       600 V         Instantaneous current setting (li) - min       600 V         Instantaneous current setting (li) - max       600 V         Overload current setting (lr) - min       500 V         Overload current setting (lsd) - min       500 V         Overload current setting (lsd) - min       500 V         Short delay current setting (lsd) - min       600 V	Special features	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.
Rated operating voltage Ue (UL) - max       480 Y / 277 V         Rated insulation voltage (Ui)       690 V AC         Rated inpulse withstand voltage (Uimp) at auxiliary contacts       6000 V         Rated operational current       6000 V         Rated operational current       6000 V         Instantaneous current setting (Ii) - min       160 A (380/400 V AC-1, making and breaking capacity)         Instantaneous current setting (Ii) - max       500 A         Overload current setting (Ir) - max       500 A         Short delay current setting (Is) - min       50 A         Overload current setting (Ir) - max       600 V         Overload current setting (Ir) - max       600 V         Overload current setting (Ir) - max       600 V         Short delay current setting (Is) - min       50 A	Technical Data - Electrical	
Rated insulation voltage (Ui)Image: Constraint on the const	Voltage rating	690 V - 690 V
Rated impulse withstand voltage (Uimp) at auxiliary contacts6000 VRated impulse withstand voltage (Uimp) at main contacts6000 VRated operational current160 A (380/400 V AC-1, making and breaking capacity) 25 A (690 V AC-1, making and breaking capacity) 25 A (690 V AC-1, making and breaking capacity) 25 A (660-690 V AC-3, making a	Rated operating voltage Ue (UL) - max	480 Y / 277 V
Rated impulse withstand voltage (Uimp) at main contacts6000 VRated operational current160 A (380/400 V AC-1, making and breaking capacity) 25 A (680 V AC -1, making and breaking capacity) 25 A (680 V AC -1, making and breaking capacity) 25 A (660-690 V AC-3, making and breaking capacity)Instantaneous current setting (li) - min350 AOverload current setting (lr) - min25 AOverload current setting (lr) - max25 AOverload current setting (ls) - min25 AOverload current setting (ls) - min0Overload current setting (ls) - min0	Rated insulation voltage (Ui)	690 V AC
Rated operational currentI60 A (380/400 V AC-1, making and breaking capacity) 25 A (690 V AC-1, making and breaking capacity) 125 A (690 V AC-1, making and breaking capacity) 125 A (600-690 V AC-3, making and breaking capacity) 25 A (660-690 V AC-3, making and breaking capacity)Instantaneous current setting (li) - min350 AInstantaneous current setting (lir) - min350 AOverload current setting (lr) - min25 AOverload current setting (lr) - max25 AOverload current setting (lr) - max04Short delay current setting (lsd) - min04	Rated impulse withstand voltage (Uimp) at auxiliary contacts	6000 V
25 A (690 V AC - 1, making and breaking capacity) 125 A (415 V AC - 1, making and breaking capacity) 25 A (660-690 V AC - 3, making and breaking capacity) 25 A (660-690 V AC - 3, making and breaking capacity) 25 A (660-690 V AC - 3, making and breaking capacity) 25 A (660-690 V AC - 3, making and breaking capacity) 25 A (660-690 V AC - 3, making and breaking capacity) 25 A (660-690 V AC - 3, making and breaking capacity) 25 A (660-690 V AC - 3, making and breaking capacity) 25 A (660-690 V AC - 3, making and breaking capacity) 25 A (660-690 V AC - 3, making and breaking capacity) 25 A (660-690 V AC - 3, making and breaking capacity) 25 A (660-690 V AC - 3, making and breaking capacity) 	Rated impulse withstand voltage (Uimp) at main contacts	6000 V
Instantaneous current setting (li) - max     350 A       Overload current setting (lr) - min     25 A       Overload current setting (lr) - max     25 A       Short delay current setting (lsd) - min     0 A	Rated operational current	25 A (690 V AC -1, making and breaking capacity) 125 A (415 V AC-1, making and breaking capacity)
Overload current setting (Ir) - min     25 A       Overload current setting (Ir) - max     25 A       Short delay current setting (Isd) - min     0 A	Instantaneous current setting (li) - min	350 A
Overload current setting (Ir) - max     25 A       Short delay current setting (Isd) - min     0 A	Instantaneous current setting (li) - max	350 A
Short delay current setting (Isd) - min	Overload current setting (Ir) - min	25 A
	Overload current setting (Ir) - max	25 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	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	85 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	50 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz	35 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz	10 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 Hz	7.5 kA
Rated short-circuit making capacity Icm at 240 V, 50/60 Hz	187 kA
Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz	105 kA
Rated short-circuit making capacity Icm at 440 V, 50/60 Hz	74 kA
Rated short-circuit making capacity Icm at 525 V, 50/60 Hz	40 kA
Rated short-circuit making capacity Icm at 690 V, 50/60 Hz	17 kA
Short-circuit total breaktime	< 10 ms
Low-voltage HBC fuse - max	200 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	7500 operations at 690 V AC-1 10000 operations at 400 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)	IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel 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, 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: 25 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	Box terminal
Terminal capacity (control cable)	14 mm <sup>2</sup> - 18 mm <sup>2</sup> (1x)
Terminal capacity (aluminum solid conductor/cable)	16 mm <sup>2</sup> - 18 mm <sup>2</sup> (2x) 16 mm <sup>2</sup> (1x) at tunnel terminal
Terminal capacity (copper busbar)	Min. 12 mm x 5 mm direct at switch rear-side connection
	Max. 16 mm x 5 mm direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection M8 at rear-side screw connection
Terminal capacity (copper solid conductor/cable)	6 mm <sup>2</sup> - 12 mm <sup>2</sup> (1x) direct at switch rear-side connection 6 mm <sup>2</sup> - 9 mm <sup>2</sup> (2x) 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> - 95 mm <sup>2</sup> (1x) at tunnel terminal

Terminal capacity (copper stranded conductor/cable)	4 mm <sup>2</sup> - 3/0 mm <sup>2</sup> (1x) at tunnel terminal 4 mm <sup>2</sup> - 2/0 mm <sup>2</sup> (1x) direct at switch rear-side connection 25 mm <sup>2</sup> (2x) at box terminal 25 mm <sup>2</sup> - 70 mm <sup>2</sup> (1x) at box terminal
Terminal capacity (copper strip)	Min. 2 segments of 9 mm x 0.8 mm at box terminal Max. 9 segments of 9 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)	25 A
Equipment heat dissipation, current-dependent	8.78 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 b observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must b 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 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 switcl protection (ecl@ss13-27-37-04-09 [AJZ716018])	h technology / Circuit bre	əaker (LV < 1 kV) / Circuit brea	ker for power transformer, gene	rator and system
Rated permanent current lu	А	25		

Rated permanent current lu	А	25
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	50
Overload release current setting	А	25 - 25
Adjustment range short-term delayed short-circuit release	А	0 - 0
Adjustment range undelayed short-circuit release	А	350 - 350
Power loss	W	8.8
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

Motor drive integrated	No
Type of control element Complete device with protection unit	Rocker lever Yes
Position of connection for main current circuit	Front side
Number of poles	3
With integrated under voltage release	No
With switched-off indicator	No
Number of auxiliary contacts as change-over contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as normally closed contact	0