DATASHEET - NZMN3-AE400-NA

Circuit-breaker, 3p, 400A

Part no.

NZMN3-AE400-NA 269300



General specifications	
Product name	Eaton Moeller series NZM molded case circuit breaker electronic
Part no.	NZMN3-AE400-NA
EAN	4015082693008
Product Length/Depth	166 millimetre
Product height	297 millimetre
Product width	140 millimetre
Product weight	6.979 kilogram
Compliances	RoHS conform
Certifications	UL 489 CSA certified CSA (File No. 22086) CSA-C22.2 No. 5-09 Specially designed for North America IEC CSA (Class No. 1432-01) IEC 60947-2 UL (Category Control Number DIVQ) UL listed CE marking IEC/EN 60947 UL (File No. E31593) UL/CSA
Product Tradename	NZM
Product Type	Molded case circuit breaker
Product Sub Type	Electronic
Delivery program	
Application	Branch circuits, feeder circuits Use in unearthed supply systems at 690 V
Туре	Circuit breaker
Circuit breaker frame type	NZM3
Connection	Front screw
Number of poles	Three-pole
Amperage Rating	400 A
Release system	Electronic release
Features	Motor drive optional
Special features	Protection unit 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: 400 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 R.m.s. value measurement and "thermal memory"
Fechnical Data - Electrical	
Voltage rating	690 V - 690 V
Rated operating voltage Ue (UL) - max	600 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	400 A (690 V AC -1, making and breaking capacity) 400 A (660-690 V AC-3, making and breaking capacity) 630 A (380/400 V AC-1, making and breaking capacity) 500 A (415 V AC-1, making and breaking capacity)
Rated short-time withstand current (t = $0.3 s$)	3.3 kA
Rated short-time withstand current (t = 1 s)	3.3 kA
Instantaneous current setting (li) - min	800 A
Instantaneous current setting (li) - max	4400 A

Overload current setting (tr) - max 000 A Short delay current setting (tr) - max 0.A Bated short-circuit breaking capacity (se (EC/EN 08947) at 200 V, 5000 Hz 4400 A Rated short-circuit breaking capacity (se (EC/EN 08947) at 400 V, 5000 Hz 51A A Rated short-circuit breaking capacity (se (EC/EN 08947) at 400 V, 5000 Hz 51A A Rated short-circuit breaking capacity (se (EC/EN 08947) at 400 V, 5000 Hz 51A A Rated short-circuit breaking capacity (se (EC/EN 08947) at 400 V, 5000 Hz 51A A Rated short-circuit making capacity (se (EC/EN 08947) at 400 V, 5000 Hz 51A A Rated short-circuit making capacity (se (EC/EN 08947) at 400 V, 5000 Hz 51A A Rated short-circuit making capacity (se m 440 V, 5000 Hz 51A A Rated short-circuit making capacity (se m 440 V, 5000 Hz 51A A Rated short-circuit making capacity (se m 440 V, 5000 Hz 51A A Rated short-circuit making capacity (se m 440 V, 5000 Hz 51A A Rated short-circuit making capacity (se m 440 V, 5000 Hz 51A A Rated short-circuit making capacity
Short delay current setting (tad) - max 04 Short-circuit release non-delayed setting - min 600 A Rated short-circuit breaking capacity (ts (IEC/EN 0097) at 200 V, 500 Hz 56 A Rated short-circuit breaking capacity (ts (IEC/EN 0097) at 200 V, 500 Hz 50 A Rated short-circuit breaking capacity (ts (IEC/EN 0097) at 200 V, 500 Hz 51 A Rated short-circuit breaking capacity (ts (IEC/EN 0097) at 200 V, 500 Hz 51 A Rated short-circuit breaking capacity (ts (IEC/EN 0097) at 200 V, 500 Hz 51 A Rated short-circuit making capacity (ts (IEC/EN 0097) at 200 V, 500 Hz 51 A Rated short-circuit making capacity (ts (IEC/EN 0097) at 200 V, 500 Hz 51 A Rated short-circuit making capacity (ts 000 Hz 51 A Rated short-circuit making capacity (ts mat 400 V, 500 Hz 51 A Rated short-circuit making capacity (ts mat 400 V, 500 Hz 51 A Rated short-circuit making capacity (ts mat 400 V, 500 Hz 51 A Rated short-circuit making capacity (ts mat 400 V, 500 Hz 51 A Rated short-circuit making capacity (ts mat 400 V, 500 Hz 51 A Rated short-circuit making capacity (ts mat 400 V, 500 Hz 51 A Rated short-circuit making capacity (ts mat 400 V, 500 Hz 51 A Rated short-circuit making capacity (ts mat 400 V, 500 Hz 51 A Rated short-circuit making capacity (ts mat 400 V, 500 Hz 51 A
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Short-circuit release non-delayed setting - max 440 A Rated short-circuit breaking capacity ics (IEC/EN 69947) at 230 V, 50/60 Hz 55 kA Rated short-circuit breaking capacity ics (IEC/EN 69947) at 230 V, 50/60 Hz 50 kA Rated short-circuit breaking capacity ics (IEC/EN 69947) at 230 V, 50/60 Hz 13 kA Rated short-circuit breaking capacity ics (IEC/EN 69947) at 250 V, 50/60 Hz 13 kA Rated short-circuit making capacity ics (IEC/EN 69947) at 250 V, 50/60 Hz 165 kA Rated short-circuit making capacity ics (IEC/EN 69947) at 250 V, 50/60 Hz 165 kA Rated short-circuit making capacity ics (IEC/EN 69947) at 250 V, 50/60 Hz 165 kA Rated short-circuit making capacity ics (IEC/EN 69947) at 250 V, 50/60 Hz 165 kA Rated short-circuit making capacity ics (IEC/EN 69947) at 250 V, 50/60 Hz 165 kA Rated short-circuit making capacity ics (IEC/EN 69947) at 250 V, 50/60 Hz 165 kA Rated short-circuit making capacity icm at 400 V, 50/60 Hz 165 kA Rated short-circuit making capacity icm at 400 V, 50/60 Hz 106 kA Short-circuit making capacity icm at 400 V, 50/60 Hz 50 kA Iberticial connection type of main circuit 500 V AC (between maxiliary contacts and main contacts) 300 V AC (between the axuliary contacts and main contacts) 300 V AC (between the axuliary contacts and main contacts) 300 V AC (between the axuliary contact
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Rated short-circuit breaking capacity Ics IEC/EN 60947) at 400/415 V, 5000 Hz 50 kA Rated short-circuit breaking capacity Ics IEC/EN 60947) at 400 V, 5000 Hz 35 kA Rated short-circuit breaking capacity Ics IEC/EN 60947) at 525 V, 5000 Hz 54 A Rated short-circuit breaking capacity Ics IEC/EN 60947) at 500 V, 5000 Hz 54 A Rated short-circuit making capacity Ics IEC/EN 60947) at 500 V, 5000 Hz 54 A Rated short-circuit making capacity Ics IEC/EN 60947) at 500 V, 5000 Hz 54 A Rated short-circuit making capacity Ics IEC/EN 609472 54 A Rated short-circuit making capacity Ics IEC/EN 609472 54 A Rated short-circuit making capacity Ics IEC/EN 609472 54 A Rated short-circuit making capacity Ics IEC/EN 609472 54 A Rated short-circuit making capacity Ics IEC/EN 609472 54 A Rated short-circuit making capacity Ics IEC/EN 609472 50 A Low-voltage HBC fuse - max 56 A Isolation 50 V AC (between auxiliary contacts) Number of operations per hour - max 66 A Isolation 60 V AC (between auxiliary contacts) Overvoltage Category III Pollution degree 100 Overvoltage AC (EV/EN 60947-2) Overvoltage category 200 Overvoltage at 600
Rated short-circuit breaking capacity les (IEC/EN 60947) at 440 V, 5000 Hz 35 kA Rated short-circuit breaking capacity les (IEC/EN 60947) at 550 V, 5000 Hz 5 kA Rated short-circuit breaking capacity les (IEC/EN 60947) at 650 V, 5000 Hz 167 kA Rated short-circuit making capacity les (IEC/EN 60947) at 650 V, 5000 Hz 167 kA Rated short-circuit making capacity les mt 400 V, 5000 Hz 165 kA Rated short-circuit making capacity les mt 400 V, 5000 Hz 165 kA Rated short-circuit making capacity les mt 400 V, 5000 Hz 165 kA Rated short-circuit making capacity les mt 400 V, 5000 Hz 33 kA Rated short-circuit making capacity les mt 400 V, 5000 Hz 36 kA Rated short-circuit making capacity les mt 400 V, 5000 Hz 10 ms Rated short-circuit making capacity les mt 400 V, 5000 Hz 10 ms Short-circuit making capacity les mt 400 V, 5000 Hz 10 ms Low-voltage HBC fuse - max 10 ms Low-voltage of the or - max 60 Isolation 500 V AC (between auxiliary contacts) Number of operations per hour - max 11 Idization category 11 Pollution degree 3 Lifespan, electrical 3000 operations at 580 V AC-1 2000 oper
Rated short-circuit brasking capacity [cs (IEC/EN 60947) at S25 V, 50/60 Hz 13 kA Rated short-circuit brasking capacity [cs (IEC/EN 60947) at S90 V, 50/60 Hz 5 kA Rated short-circuit making capacity [cs at 240 V, 50/60 Hz 165 kA Rated short-circuit making capacity [cs at 250 V, 50/60 Hz 166 kA Rated short-circuit making capacity [cs at 250 V, 50/60 Hz 166 kA Rated short-circuit making capacity [cs at 250 V, 50/60 Hz 166 kA Rated short-circuit making capacity [cs at 250 V, 50/60 Hz 166 kA Rated short-circuit making capacity [cs at 250 V, 50/60 Hz 166 kA Rated short-circuit making capacity [cs at 250 V, 50/60 Hz 166 kA Rated short-circuit making capacity [cs at 690 V, 50/60 Hz 10 ms Short-circuit total brasktime 10 ms Low-voltage HBC fuse - max 00 A gG/gL Isolation 500 V AC (between auxiliary contacts) Number of operations per hour - max 60 Handle type 11 M Utilization category 11 M Overvoltage category 11 M Pollution degree 3 Lifespan, electrical 160 VAC ¹ Direction of incoming supply 5000 Operations at 690 V AC ¹ Dire
Reted short-circuit breaking capacity less (IEC/EN 60947) at 680 V, 50/60 Hz 5 kA Rated short-circuit making capacity less (IEC/EN 60947) at 680 V, 50/60 Hz 187 kA Rated short-circuit making capacity less (IEC/EN 60947) at 680 V, 50/60 Hz 105 kA Rated short-circuit making capacity less (IEC/EN 60947) at 680 V, 50/60 Hz 53 kA Rated short-circuit making capacity less (IEC/EN 60947) at 680 V, 50/60 Hz 53 kA Rated short-circuit making capacity less (IEC/EN 60947) at 680 V, 50/60 Hz 64 kA Short-circuit total breaktine 40 kA Low-voltage HBC fuse - max 64 kA Isolation 5000 V AC (between auxiliary contacts and main contacts) son 0V AC (between the auxiliary contacts) Number of operations per hour - max 60 Handle type 60 Utitacion category 111 Overvoltage category 118 Pollution degree 3000 operations at 680 V AC-1 Lifespan, electrical 5000 operations at 680 V AC-1 Direction of incoming supply 5000 operations at 680 V AC-1 Direction of incoming supply 5000 operations at 680 V AC-1 Direction of incoming supply 5000 operations at 680 V AC-1 Direction of incoming supply 5000 operations at 680 V AC-3
Rated short-circuit making capacity Icm at 240 V, 50/60 Hz 167 KA Rated short-circuit making capacity Icm at 440 V, 50/60 Hz 165 KA Rated short-circuit making capacity Icm at 440 V, 50/60 Hz 53 KA Rated short-circuit making capacity Icm at 525 V, 50/60 Hz 64 C4 Short-circuit making capacity Icm at 690 V, 50/60 Hz 64 C4 Short-circuit making capacity Icm at 690 V, 50/60 Hz 64 C4 Short-circuit making capacity Icm at 690 V, 50/60 Hz 64 C4 Short-circuit total breaktime 60 Ka Low-voltage HBC fuse - max 60 Number of operations per hour - max 60 Handle type 74 KA Overvoltage category 11 II Pollution degree 11 II Lifespan, electrical 3000 operations at 680 V AC-1 Stord cortical paratical 5000 operations at 680 V AC-1 Direction of incoming supply 3000 operations at 480 V AC-1 Direction of incoming supply 3000 operations at 680 V AC-1 Technical Data - Mechanical Fixed Mounting Method Fixed
Rated short-circuit making capacity lem at 400/415 V, 50/60 Hz 105 kA Rated short-circuit making capacity lem at 400 V, 50/60 Hz 74 kA Rated short-circuit making capacity lem at 525 V, 50/60 Hz 53 kA Rated short-circuit making capacity lem at 690 V, 50/60 Hz 60 kA Short-circuit making capacity lem at 690 V, 50/60 Hz 40 kA Low-voltage HBC fuse - max 400 A gG/gL Electrical connection type of main circuit 500 V AC (between auxiliary contacts and main contacts) Isolation 500 V AC (between auxiliary contacts) Number of operations per hour - max 60 Handle type Rocker lever Utilization category A (IEC/EN 60947-2) Overvoltage category III Pollution degree 3000 operations at 680 V AC-1 5000 operations at 400 V AC-2 32000 operations at 400 V AC-2 32000 operations at 400 V AC-2 32000 operations at 400 V AC-3 3200 operations at 400 V AC-3 32000 operations at 400 V AC-3 3200 operations
Rated short-circuit making capacity lom at 400 V, 50/60 Hz 74 kA Rated short-circuit making capacity lom at 525 V, 50/60 Hz 53 kA Rated short-circuit making capacity lom at 690 V, 50/60 Hz 64 kA Short-circuit total breaktime 10 ms Low-voltage HBC fuse - max 64 kA Electrical connection type of main circuit 50 V AC (between auxiliary contacts and main contacts) and 00 A gG/gL Isolation 50 V AC (between auxiliary contacts and main contacts) and 00 A gG/gL Number of operations per hour - max 60 C Handle type Rocker lever Utilization category 111 Pollution degree 3 Lifespan, electrical 3000 operations at 690 V AC-1 \$2000 operations at 400 V AC-1 \$2000 operations at 400 V AC-3 \$2000
Rated short-circuit making capacity lem at 525 V, 50/60 Hz 53 kA Rated short-circuit making capacity lem at 690 V, 50/60 Hz 40 kA Short-circuit total breaktime 400 A gG/gL Low-voltage HBC fuse - max 500 V AC (between auxiliary contacts and main contacts) 300 V AC (between auxiliary contacts) Isolation 500 V AC (between auxiliary contacts) Number of operations per hour - max 60 Handle type Rated short-circuit Utilization category 111 Overvoltage category 111 Pollution degree 3 Lifespan, electrical 3000 operations at 690 V AC-1 2000 operations at 690 V AC-3 2000 operations at 400 V AC-3 2000 operations at
Rated short-circuit making capacity lem at 690 V, 50/60 Hz 40 kA Short-circuit total breaktime 400 A gG/gL Low-voltage HBC fuse - max 600 A gG/gL Belectrical connection type of main circuit 500 V AC (between auxiliary contacts and main contacts) Isolation 500 V AC (between auxiliary contacts and main contacts) Number of operations per hour - max 60 Handle type 60 Utilization category A (IEC/EN 60947-2) Overvoltage category III Pollution degree 3000 operations at 690 V AC-1 Lifespan, electrical 3000 operations at 690 V AC-1 Direction of incoming supply As required Technical Data - Mechanical Fixed Mounting Method Fixed
Short-circuit total breaktime < 10 ms
Low-voltage HBC fuse - max 400 A gG/gL Electrical connection type of main circuit Screw connection Isolation Screw connection Isolation Solov AC (between auxiliary contacts and main contacts) 300 V AC (between auxiliary contacts) Number of operations per hour - max 60 Handle type 60 Overvoltage category 10 Overvoltage category II Pollution degree 3 Itfespan, electrical 3000 operations at 690 V AC-1 5000 operations at 400 V AC-3 2000 operations 4
Electrical connection type of main circuit Screw connection Isolation Screw connection Isolation Screw connection Number of operations per hour - max 60 Handle type Rocker lever Utilization category A (IEC/EN 60947-2) Overvoltage category III Pollution degree 3 Lifespan, electrical Strew connections at 690 V AC-1 5000 operations at 400 V AC-1 2000 operations at 400 V AC-3 2000 operations at 690
Isolation Image: Stream of the entities of the entit entities of the entits of the entities of t
Number of operations per hour - max Image: Contracts in the maxiliary contacts in the maxiliary contac
Handle type Rocker lever Utilization category III Overvoltage category III Pollution degree 3 Lifespan, electrical S000 operations at 690 V AC-1 \$000 operations at 690 V AC-1 \$000 operations at 400 V AC-3 \$000 operations at 400 V AC-3 \$000 operations at 400 V AC-3 \$000 operations at 690 V AC-3 Direction of incoming supply Ka required Mounting Method Kied
Utilization category A (IEC/EN 60947-2) Overvoltage category III Pollution degree 3 Lifespan, electrical Soudo operations at 690 V AC-1 Soudo operations at 400 V AC-1 Soudo operations at 400 V AC-1 Soudo operations at 400 V AC-3 Soudo operations at 400 V AC-3 Soudo operations at 400 V AC-3 Soudo operations at 415 V AC-3 Soudo operations at 450 V AC-3 Direction of incoming supply A required Technical Data - Mechanical Fixed Built-in device fixed built-in technique
Overvoltage category III Pollution degree 3 Lifespan, electrical 3000 operations at 690 V AC-1 5000 operations at 400 V AC-1 2000 operations at 400 V AC-1 2000 operations at 400 V AC-3 2000 operations at 415 V AC-3 2000 operations at 690 V AC-3 <
Pollution degree 3 Lifespan, electrical Solo operations at 690 V AC-1 5000 operations at 400 V AC-1 2000 operations at 400 V AC-3 2000 operations at 400 V AC-3 2000 operations at 450 V AC-3 Direction of incoming supply As required Technical Data - Mechanical Fixed Built-in device fixed built-in technique
Lifespan, electrical 3000 operations at 690 V AC-1 Lifespan, electrical 5000 operations at 400 V AC-1 Direction of incoming supply As required Technical Data - Mechanical Fixed Mounting Method Fixed
Direction of incoming supply Image: Source of the sector
Technical Data - Mechanical Fixed Mounting Method Mounting Method
Mounting Method Fixed Built-in device fixed built-in technique
Built-in device fixed built-in technique
Degree of protection
IP20
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 lcn) Rated current = rated uninterrupted current: 400 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 R.m.s. value measurement and "thermal memory"
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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 R.m.s. value measurement and "thermal memory"
Lifespan, mechanical 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 R.m.s. value measurement and "thermal memory"
Lifespan, mechanical Technical Data - Mechanical - Terminals 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 R.m.s. value measurement and "thermal memory" Image: Data - Mechanical - Terminal State Image: Data - Mechanical - Terminal State

Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. 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. Is the panel builder's responsibility. Is the panel builder's responsibility.
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Meets the product standard's requirements.
70 °C
40 °C
70 °C
-25 °C
48 W
400 A
10 segments of 50 mm x 1 mm (2x) at rear-side width extension Min. 6 segments of 16 mm x 0.8 mm at box terminal Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched) Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal
4 mm ² - 350 mm ² (1x) direct at switch rear-side connection 2 mm ² - 500 mm ² (1x) at box terminal 350 mm ² (2x) direct at switch rear-side connection
16 mm ² - 185 mm ² (1x) at tunnel terminal 4 mm ² - 350 mm ² (1x) at tunnel terminal
M10 at rear-side screw connection 500 mm ² (2x) at rear-side width extension
Max. 500 mm ² (2x) at 2-hole tunnel terminal Max. 10 mm x 50 mm (2x) at rear-side width extension Min. 20 mm x 5 mm direct at switch rear-side connection
Max. 500 mm ² (1x) at 2-hole tunnel terminal

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 permanent current lu	А	400
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	50

Overload release current setting	А	200 - 400
Adjustment range short-term delayed short-circuit release	А	0 - 0
Adjustment range undelayed short-circuit release	А	800 - 4400
Power loss	W	
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		No
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