DATASHEET - NZMH3-VE400-S1



Circuit-breaker, 3p, 400A, 1000 V

Part no. EL Number (Norway) NZMH3-VE400-S1 119367 4363150



General specifications

Product name	Eaton Moeller series NZM molded case circuit breaker electronic
Part no.	NZMH3-VE400-S1
EAN	4015081175031
Product Length/Depth	166 millimetre
Product height	275 millimetre
Product width	140 millimetre
Product weight	6.34 kilogram
Compliances	RoHS conform
Certifications	IEC
Product Tradename	NZM
Product Type	Molded case circuit breaker
Product Sub Type	Electronic
Delivery program	
Туре	Circuit breaker
Circuit breaker frame type	NZM3
Number of poles	Three-pole
Amperage Rating	400 A
Release system	Electronic release
Features	Motor drive optional Protection unit
Special features	Lifespan, mechanical: of which max. 50 % trip by shunt/undervoltage release R.m.s. value measurement and "thermal memory" Adjustable time delay setting to overcome current peaks tr at 6 x lr also infinity (without overload releases) Adjustable delay time tsd: Steps: 0, 20, 60, 100, 200, 300, 500, 750, 1000 ms i ² t constant function: switchable NZM4S1 terminal type: Insulated busbar connection (NZM4-XKS screw connection) Rated current = rated uninterrupted current: 400 A Terminal capacity hint: Up to 240 mm ² can be connected depending on the cable manufacturer.
Technical Data - Electrical	
Voltage rating	1000 V - 1000 V
Rated insulation voltage (Ui)	1000 V AC
Rated impulse withstand voltage (Uimp) at auxiliary contacts	6000 V
Rated impulse withstand voltage (Uimp) at auxiliary contacts Rated impulse withstand voltage (Uimp) at main contacts	6000 V 8000 V
Rated impulse withstand voltage (Uimp) at main contacts	8000 V
Rated impulse withstand voltage (Uimp) at main contacts Rated short-time withstand current (t = 0.3 s)	8000 V 3.3 kA
Rated impulse withstand voltage (Uimp) at main contacts Rated short-time withstand current (t = 0.3 s) Rated short-time withstand current (t = 1 s)	8000 V 3.3 kA 3.3 kA
Rated impulse withstand voltage (Uimp) at main contacts Rated short-time withstand current (t = 0.3 s) Rated short-time withstand current (t = 1 s) Instantaneous current setting (li) - min	8000 V 3.3 kA 3.3 kA 800 A
Rated impulse withstand voltage (Uimp) at main contacts Rated short-time withstand current (t = 0.3 s) Rated short-time withstand current (t = 1 s) Instantaneous current setting (li) - min Instantaneous current setting (li) - max	8000 V 3.3 kA 3.3 kA 800 A 400 A
Rated impulse withstand voltage (Uimp) at main contacts Rated short-time withstand current (t = 0.3 s) Rated short-time withstand current (t = 1 s) Instantaneous current setting (li) - min Instantaneous current setting (li) - max Overload current setting (lr) - min	8000 V 3.3 kA 3.3 kA 800 A 4400 A 200 A
Rated impulse withstand voltage (Uimp) at main contacts Rated short-time withstand current (t = 0.3 s) Rated short-time withstand current (t = 1 s) Instantaneous current setting (li) - min Instantaneous current setting (li) - max Overload current setting (lr) - min Overload current setting (lr) - max	8000 V 3.3 kA 3.3 kA 800 A 800 A 200 A 200 A 400 A 200 A
Rated impulse withstand voltage (Uimp) at main contacts Rated short-time withstand current (t = 0.3 s) Rated short-time withstand current (t = 1 s) Instantaneous current setting (li) - min Instantaneous current setting (li) - max Overload current setting (lr) - min Overload current setting (lr) - max Short delay current setting (lsd) - min	8000 V 3.3 kA 3.3 kA 800 A 800 A 4400 A 200 A 400 A 400 A 400 A
Rated impulse withstand voltage (Uimp) at main contacts Rated short-time withstand current (t = 0.3 s) Rated short-time withstand current (t = 1 s) Instantaneous current setting (li) - min Instantaneous current setting (li) - max Overload current setting (lr) - min Overload current setting (lr) - max Short delay current setting (lsd) - min Short delay current setting (lsd) - max	8000 V 3.3 kA 3.3 kA 800 A 800 A 400 A 200 A 400 A
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Rated impulse withstand voltage (Uimp) at main contacts Rated short-time withstand current (t = 0.3 s) Rated short-time withstand current (t = 1 s) Instantaneous current setting (li) - min Instantaneous current setting (li) - max Overload current setting (lr) - min Overload current setting (lr) - max Short delay current setting (lsd) - max Short delay current setting (lsd) - max Short-circuit release delayed setting - min Short-circuit release delayed setting - max	8000 V 3.3 kA 3.3 kA 800 A 800 A 800 A 400 A 200 A 400 A
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Rated impulse withstand voltage (Uimp) at main contactsRated short-time withstand current (t = 0.3 s)Rated short-time withstand current (t = 1 s)Instantaneous current setting (li) - minInstantaneous current setting (li) - maxOverload current setting (lr) - minOverload current setting (lr) - maxShort delay current setting (lsd) - minShort delay current setting (lsd) - maxShort-circuit release delayed setting - minShort-circuit release delayed setting - maxShort-circuit release non-delayed setting - maxShort-circuit release non-delayed setting - max	8000 V 3.3 kA 3.3 kA 800 A 800 A 400 A 200 A 400 A 200 A 400 A 200 A 400 A

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Number of auxiliary contacts (normally open contacts) Image: Contacts (normality contacts (normality contacts)) Position of connection for main current circuit Final side Special features Lifespan mechanical of which max: 50 % trip by shurt/undervoltage releases Auxiliary contacts (normality contacts) Lifespan mechanical of which max: 50 % trip by shurt/undervoltage releases Auxiliary contacts (normality contacts) Lifespan mechanical of which max: 50 % trip by shurt/undervoltage releases Lifespan, mechanical Lifespan mechanical of which max: 50 % trip by shurt/undervoltage releases Lifespan, mechanical Max: 50 % trip by shurt/undervoltage releases Lifespan, mechanical Terminal capacity (normality contacts) Standard terminals Secret terminal Terminal capacity (shumium solid conductor/cable) Secret terminal Terminal capacity (shumium solid conductor/cable) Secret terminal Terminal capacity (control cable) Secret terminal Terminal capacity (control cable) Secret terminal Terminal capacity (shumium solid conductor/cable) Secret terminal Terminal capacity (control cable) Secret terminal Terminal capacity (copper strip) Secret terminal Terminal capacity (copper strinded conductor/cable) Secret terminal<	Number of auxiliary contacts (change-over contacts)	0
Position of connection for main current circuit Image: Circuit Section S	Number of auxiliary contacts (normally closed contacts)	0
Special features Lifespan, mechanical of which max. 50 % trip by shundundervoltage release Ray Lifespan, mechanical of which max. 50 % trip by shundundervoltage release Ray Lifespan, mechanical of which max. 50 % trip by shundundervoltage release Lifespan, mechanical of which max. 50 % trip by shundundervoltage release Ray Lifespan, mechanical of which max. 50 % trip by shundundervoltage release Lifespan, mechanical Immediate state of the measurement of the connection (NZM4-XS screw) connection (NZ	Number of auxiliary contacts (normally open contacts)	0
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Technical Data - Mechanical - Terminals Image: Standard terminals Standard terminals Screw terminal Terminal capacity (control cable) Image: Screw terminal Terminal capacity (aluminum solid conductor/cable) Image: Screw terminal Terminal capacity (aluminum standed conductor/cable) Image: Screw terminal Terminal capacity (aluminum stranded conductor/cable) Image: Screw terminal Terminal capacity (copper busbar) Image: Screw terminal Terminal capacity (copper busbar) Image: Screw terminal Terminal capacity (copper solid conductor/cable) Image: Screw terminal Terminal capacity (copper stranded conductor/cable) Image: Screw terminal Terminal capacity (copper strip) Image: Screw terminal Terminal capacity (copper strip) Image:		Adjustable time delay setting to overcome current peaks tr at 6 x Ir also infinity (without overload releases) Adjustable delay time tsd: Steps: 0, 20, 60, 100, 200, 300, 500, 750, 1000 ms i ² t constant function: switchable NZM4S1 terminal type: Insulated busbar connection (NZM4-XKS screw connection) Rated current = rated uninterrupted current: 400 A Terminal capacity hint: Up to 240 mm ² can be connected depending on the cable
Standard terminals Screw terminal Terminal capacity (control cable) 0.75 mm² (1x) Terminal capacity (aluminum solid conductor/cable) 16 mm² (2x) Terminal capacity (aluminum stranded conductor/cable) 50 mm² - 20 mm² (1x) at 2-hole tunnel terminal Terminal capacity (copper busbar) 50 mm² - 20 mm² (1x) at 2-hole tunnel terminal Terminal capacity (copper busbar) Min. 20 mx 3 mm direct 4 switch rear-side connection Min. 20 mx 5 mm direct 4 switch rear-side connection Max. 10 mx 50 mm (2x) at rear-side connection Min. 20 mx 5 mm direct 4 switch rear-side connection Max. 10 mx 50 mm (2x) at rear-side connection Terminal capacity (copper solid conductor/cable) 16 mm² (2x) direct at switch rear-side connection Terminal capacity (copper stranded conductor/cable) 16 mm² (2x) direct at switch rear-side connection Terminal capacity (copper stranded conductor/cable) 16 mm² (2x) direct at switch rear-side connection Terminal capacity (copper stranded conductor/cable) 16 mm² (2x) direct at switch rear-side connection Terminal capacity (copper strip) 10 ms² m³ m² m³ m² m² m² m² m² (2x) at tox terminal Terminal capacity (copper strip) 10 segments of 16 mm x 8 m at tox terminal Terminal capacity (copper strip) 10 segments of 20 mm x 1 mm + 5 segments of 24 mm x 1 mm terear-side connection (nuched)	Lifespan, mechanical	15000 operations
Terminal capacity (control cable)0.75 mm² · 1.5 mm² (2x) 0.75 mm² · 2.5 mm² (1x)Terminal capacity (aluminum solid conductor/cable)16 mm² (1x) at tunnel terminalTerminal capacity (aluminum stranded conductor/cable)50 mm² · 240 mm² (1x) at tunnel terminalTerminal capacity (copper busbar)50 mm² · 240 mm² (1x) at tunnel terminalTerminal capacity (copper busbar)Min. 20 mm x 5 mm direct at switch rear-side connection Max. 10 mm x 5 mm direct at switch rear-side connection M0 at rear-side connection S mm² · 120 mm² (2x) direct at switch rear-side connection S mm² · 120 mm² (2x) direct at switch rear-side connection S mm² · 120 mm² (2x) at box terminal S segments of 12 mm x · 10 mm x 0 mm at rear-side connection Min. 6 segments of 12 mm x · 10 mm x 0 mm at rear-side connection Min. 6 segments of 12 mm x · 1 mm x 0 mm m x rear-side connection (punched) Max N 0 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segmen	Technical Data - Mechanical - Terminals	
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Terminal capacity (aluminum stranded conductor/cable)S0 mm ² - 240 mm ² (1x) at 2-hole tunnel terminal 50 mm ² - 240 mm ² (2x) at 2-hole tunnel terminal 25 mm ² - 285 mm ² (1x) at tunnel terminal 25 mm ² - 285 mm ² (1x) at tunnel terminal 25 mm ² - 280 mm ² (1x) at tunnel terminal 25 mm ² - 280 mm ² (1x) at tunnel terminal 25 mm ² - 280 mm ² (1x) at tunnel terminal 25 mm ² - 280 mm ² (1x) at tunnel terminal 25 mm ² - 280 mm ² (1x) at tunnel terminal model terminal 25 mm ² - 185 mm ² (1x) at tunnel terminal model terminal m	Terminal capacity (control cable)	
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Image: An and the second se	Terminal capacity (aluminum stranded conductor/cable)	50 mm ² - 240 mm ² (2x) at 2-hole tunnel terminal
Identified<	Terminal capacity (copper busbar)	Max. 10 mm x 50 mm (2x) at rear-side width extension M10 at rear-side screw connection
Terminal capacity (copper strip) 25 mm² (1x) direct at switch rear-side connection 35 mm² (1x) at box terminal 25 mm² (1x) at box terminal 25 mm² (1x) at tunnel terminal 25 mm² (1x) at box terminal 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 tear-side connection (punched) Max. 10 segments of 32 mm x 1 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 1 mm (2x) at box terminal Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (In) 48 W	Terminal capacity (copper solid conductor/cable)	16 mm ² (1x) direct at switch rear-side connection
Min. 6 segments of 16 mm x 0.8 mm at box terminal 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 Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mmDesign verification as per IEC/EN 61439 - technical dataMin. 6 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mmRated operational current for specified heat dissipation (In)Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mmEquipment heat dissipation, current-dependentMax<	Terminal capacity (copper stranded conductor/cable)	25 mm² - 120 mm² (1x) direct at switch rear-side connection 35 mm² - 240 mm² (1x) at box terminal 25 mm² - 185 mm² (1x) at tunnel terminal
Rated operational current for specified heat dissipation (In) 400 A Equipment heat dissipation, current-dependent 48 W	Terminal capacity (copper strip)	Min. 6 segments of 16 mm x 0.8 mm at box terminal 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
Equipment heat dissipation, current-dependent 48 W	Design verification as per IEC/EN 61439 - technical data	
	Rated operational current for specified heat dissipation (In)	400 A
Ambient operating temperature - min -25 °C	Equipment heat dissipation, current-dependent	48 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	Systems, cable, selectivity and generator 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 (ect@ss13-27-37-04-09 [AJZ710010])		
Rated permanent current lu	А	400
Rated voltage	V	1000 - 1000
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	150
Overload release current setting	А	200 - 400
Adjustment range short-term delayed short-circuit release	А	400 - 4000
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