DATASHEET - NZM4-XA208-250AC/DC



Shunt release, 208-240VAC/DC

Part no.	**NZM4-XA208-250AC/DC**
	266451
EL Number (Norway)	**4358961**

General specifications

Product name	Eaton Moeller series NZM - Molded case circuit breaker
Part no.	NZM4-XA208-250AC/DC
EAN	4015082664510
Product Length/Depth	107 millimetre
Product height	51 millimetre
Product width	64 millimetre
Product weight	0.256 kilogram
Compliances	RoHS conform UL/CSA IEC
Certifications	UL listed UL489 UL (Category Control Number DIHS) CSA (File No. 22086) CSA-C22.2 No. 5-09 CSA certified CSA (Class No. 1437-01) UL (File No. E140305) IEC60947 CE marking
Product Tradename	NZM
Product Type	Molded case circuit breaker
Product Sub Type	None

Delivery program

Type	Shunt release Accessory
Special features	Shunt releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release. If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Switches are tripped by a voltage pulse or by the application of uninterrupted voltage.
Frame	NZM4
Suitable for	Off-load switch
Used with	NZM4(-4), N(S)4(-4)

Technical Data - Electrical

Voltage type	AC/DC
Voltage rating	0.7 - 1.1 x Us
Voltage rating at AC (x Us) - min	0.7
Voltage rating at AC (x Us) - max	1.1
Rated control voltage (relay contacts)	208 V AC 250 V AC 208 V DC 250 V DC
Rated control supply voltage	208 - 250 V AC/DC
Rated control supply voltage (Us) at AC, 50 Hz - min	208 V
Rated control supply voltage (Us) at AC, 50 Hz - max	250 V
Rated control supply voltage (Us) at AC, 60 Hz - min	208 V
Rated control supply voltage (Us) at AC, 60 Hz - max	250 V
Rated control supply voltage (Us) at DC - min	208 V
Rated control supply voltage (Us) at DC - max	250 V
Frequency rating	50 Hz / 60 Hz / 200 Hz / 400 Hz, DC (shunt release)
Pick-up power consumption (shunt release)	2.5 VA/W
Reaction time	22 ms
Time on duty - max	∞

Minimum command time - min			10 ms
Minimum command time - max			15 ms
Electric connection type			Screw connection

Technical Data - Mechanical

Number of contacts (change-over contacts)			0
Number of contacts (normally closed contacts)			0
Number of contacts (normally open contacts)			0
Connection type			With bolt connection
Special features			Shunt releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release. If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Switches are tripped by a voltage pulse or by the application of uninterrupted voltage.

Technical Data - Mechanical - Terminals

Terminal capacity (solid/flexible conductor)			18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm^2 - 2.5 mm^2 (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed 0.75 mm^2 - 2.5 mm^2 (1x) for undervoltage releases, off-delayed with ferrule 0.75 mm^2 - 2.5 mm^2 (1x) at shunt release with ferrule 18 - 14 AWG (2x) at shunt release 18 - 14 AWG (1x) at shunt release 0.75 mm^2 - 2.5 mm^2 (2x) at shunt release with ferrule

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.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Shunt release (for power circuit breaker) (EC001023)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Full load current trip (ecl@ss13-27-37-04-18 [AKF016018])

Rated control supply voltage AC 50 Hz		V	208 - 250
Rated control supply voltage AC 60 Hz		V	208 - 250
Rated control supply voltage DC		V	208 - 250
Voltage type for actuating			AC/DC
Initial value of the undelayed short-circuit release - setting range		A	0
End value adjustment range undelayed short-circuit release		A	0
Power consumption		W	
Type of electric connection			Screw connection

Number of contacts as normally open contact			0
Number of contacts as normally closed contact			0
Number of contacts as change-over contact			0
Suitable for power circuit breaker			No
Suitable for off-load switch			Yes
Suitable for motor safety switch			No
Suitable for overload relay			No

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