

Shunt release, for capacitor unit

Part no. **NZM-XCM
229413**



General specifications		
Product name		Eaton Moeller series NZM release
Part no.		NZM-XCM
EAN		4015082294137
Product Length/Depth		100 millimetre
Product height		114 millimetre
Product width		74 millimetre
Product weight		0.48 kilogram
Compliances		IEC RoHS conform
Product Tradename		NZM
Product Type		Accessories
Product Sub Type		Release
Delivery program		
Type		Accessory Shunt release Shunt release for capacitor unit
Special features		Capacitor unit 230 V 50/60 Hz in conjunction with NZM...-XA208-250 AC/DC shunt release Enclosure: degree of protection IP20 not UL/CSA approved Enables the safe use of circuit-breakers as mesh network circuit-breakers in the range from 0 – 110 % Un with constant switch-off time of 40 ms. If the mains voltage is absent, the installed capacitor supplies power for actuating the shunt release for at least 12 hours. The configuration of the capacitor unit is undertaken independently of the circuit-breaker. Connect capacitor unit to the supply side! Engineering Guidelines: Connect a standard auxiliary contact as N/O in series with the shunt release! Standard auxiliary contact not included as standard.
Frame		NZM1/2/3/4
Suitable for		Off-load switch
Used with		NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4) NZM1(-4), N(S)1(-4) NZM4(-4), N(S)4(-4)
Technical Data - Electrical		
Voltage type		DC
Voltage rating at AC		230 V AC
Rated impulse withstand voltage of auxiliary contacts		8000 V
Rated impulse withstand voltage of main contacts		8000 V
Rated control supply voltage (Us) at AC, 50 Hz - min		230 V
Rated control supply voltage (Us) at AC, 50 Hz - max		230 V
Rated control supply voltage (Us) at AC, 60 Hz - min		230 V
Rated control supply voltage (Us) at AC, 60 Hz - max		230 V
Rated control supply voltage (Us) at DC - min		0 V
Rated control supply voltage (Us) at DC - max		0 V
Rated operation current (Ie)		< 10 mA 3 A
Electric connection type		Screw connection
Overvoltage category		III
Pollution degree		3
Technical Data - Mechanical		
Number of contacts (change-over contacts)		0
Number of contacts (normally closed contacts)		0
Number of contacts (normally open contacts)		0
Special features		Capacitor unit 230 V 50/60 Hz in conjunction with NZM...-XA208-250 AC/DC shunt release Enclosure: degree of protection IP20 not UL/CSA approved Enables the safe use of circuit-breakers as mesh network circuit-breakers in the range from 0 – 110 % Un with constant switch-off time of 40 ms. If the mains voltage is absent, the installed capacitor supplies power for actuating the shunt release for at least 12 hours. The configuration of the capacitor unit is undertaken independently of the

		circuit-breaker. Connect capacitor unit to the supply side! Engineering Guidelines: Connect a standard auxiliary contact as N/O in series with the shunt release! Standard auxiliary contact not included as standard.
Technical Data - Mechanical - Terminals		
Terminal capacity (solid/flexible conductor)		20 - 14 AWG (1x) with ferrule 0.5 mm ² - 2.5 mm ² (1x) for undervoltage releases, off-delayed with ferrule 0.5 mm ² - 2.5 mm ² (1x) at shunt release with ferrule 20 - 16 AWG (2x) 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	230 - 230
Rated control supply voltage AC 60 Hz	V	230 - 230
Rated control supply voltage DC	V	0 - 0
Voltage type for actuating		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