

Shunt release, 60VAC/DC, +1early N/O



**Part no.** **NZM2/3-XAHIV60AC/DC**  
**259814**

<b>General specifications</b>		
Product name		Eaton Moeller series NZM release
Part no.		NZM2/3-XAHIV60AC/DC
EAN		4015082598143
Product Length/Depth		42 millimetre
Product height		90 millimetre
Product width		30 millimetre
Product weight		0.064 kilogram
Compliances		IEC UL/CSA RoHS conform
Certifications		UL listed IEC60947 CE marking UL489 UL (File No. E140305) CSA-C22.2 No. 5-09 CSA (File No. 22086) UL (Category Control Number DIHS) CSA certified CSA (Class No. 1437-01)
Product Tradename		NZM
Product Type		Accessories
Product Sub Type		Release
<b>Delivery program</b>		
Type		Accessory Shunt release
Special features		Cannot be used in conjunction with NZM...-XR... remote operator. If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Early make of auxiliary contact on switching on and off (manual operation): approx. 20 ms. Shunt releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.
Frame		NZM2/3
Fitted with:		Early-make auxiliary contact
Suitable for		Off-load switch
Used with		NZM2(-4), N2(-4) NZM3(-4), N3(-4)
<b>Technical Data - Electrical</b>		
Voltage type		AC
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)		60 V AC 60 V DC
Rated control supply voltage		60 V AC/DC
Rated control supply voltage (Us) at AC, 50 Hz - min		60 V
Rated control supply voltage (Us) at AC, 50 Hz - max		60 V
Rated control supply voltage (Us) at AC, 60 Hz - min		60 V
Rated control supply voltage (Us) at AC, 60 Hz - max		60 V
Rated control supply voltage (Us) at DC - min		60 V
Rated control supply voltage (Us) at DC - max		60 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		20 ms
Time on duty - max		∞
Minimum command time - min		10 ms

Minimum command time - max		15 ms
Electric connection type		Screw connection
<b>Technical Data - Mechanical</b>		
Number of contacts (change-over contacts)		0
Number of contacts (normally closed contacts)		0
Number of contacts (normally open contacts)		1
Connection type		With bolt connection
Special features		Cannot be used in conjunction with NZM...-XR... remote operator. If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Early make of auxiliary contact on switching on and off (manual operation): approx. 20 ms. Shunt releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.
<b>Technical Data - Mechanical - Terminals</b>		
Terminal capacity (solid/flexible conductor)		0.75 mm <sup>2</sup> - 2.5 mm <sup>2</sup> (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) at shunt release 0.75 mm <sup>2</sup> - 2.5 mm <sup>2</sup> (2x) at shunt release with ferrule 18 - 14 AWG (2x) at shunt release 18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm <sup>2</sup> - 2.5 mm <sup>2</sup> (1x) at shunt release with ferrule 0.75 mm <sup>2</sup> - 2.5 mm <sup>2</sup> (1x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed
<b>Design verification as per IEC/EN 61439</b>		
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 8.0

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@ss10.0.1-27-37-04-18 [AKF016013])		
Rated control supply voltage Us at AC 50HZ	V	60 - 60
Rated control supply voltage Us at AC 60HZ	V	60 - 60
Rated control supply voltage Us at DC	V	60 - 60
Voltage type for actuating		AC
Initial value of the undelayed short-circuit release - setting range	A	0
End value adjustment range undelayed short-circuit release	A	0
Type of electric connection		Screw connection
Number of contacts as normally open contact		1
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