

**Shunt release for NZM2/3, configurable relays, 2NO, 208-240AC, Push-in terminals**



**Part no. NZM2/3-XA2A208-240AC**

**189743**

**EL Number  
(Norway)**

**4363009**

|  |   |
|--|---|
| Product name   | Eaton Moeller series NZM release  |
| Part no.   | NZM2/3-XA2A208-240AC  |
| EAN  | 4015081877386   |
| Product Length/Depth                                 | 115 millimetre  |
| Product height                                       | 65 millimetre   |
| Product width  | 75 millimetre   |
| Product weight                                       | 0.08 kilogram   |
| Compliances  | IEC<br>UL/CSA<br>RoHS conform   |
| Certifications                                       | CSA (File No. 22086)<br>UL (Category Control Number DIHS)<br>UL (File No. E140305)<br>UL489<br>IEC60947<br>CE marking<br>CSA (Class No. 1437-01)<br>UL listed<br>CSA-C22.2 No. 5-09<br>CSA certified  |
| Product Tradename                                    | NZM   |
| Product Type   | Accessories   |
| Product Sub Type                                     | Release   |
| Type   | Accessory Shunt release Shunt release with two relays   |
| Special features                                     | The breakers are actuated by a voltage pulse or by applying a no-break current. For signaling commands or different states of the circuit-breaker. Two relays per unit. The activation criteria can be configured in the trip unit. Configuration via communication or circuit breaker display or front USB port and Eaton Power Xpert Protection Manager. If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Only for use in combination with circuit-breakers with electronic trips. Shunt trip relay modules cannot be installed simultaneously with make-before-break auxiliary contact NZM...-XHIV, under-voltage trip NZM...-XU... or shunt trip NZM...-XA. Relay coil is controlled by trip unit. Relay contacts for control wiring. Relays can be used for controlling remote operator with Us=208-204 V AC. Control wiring on push-in clamps. Cannot be used with the PXR10 NZM-AX electronic trip. |
| Frame  | NZM2/3  |
| Suitable for   | Motor safety switch<br>Off-load switch  |
| Used with  | PXR20(25) NZM3(-4)-...X...<br>PXR20(25) NZM2(-4)-...X...  |
| 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 insulation voltage (Ui)                        | 250 V   |
| Rated impulse withstand voltage (Uimp)               | 4 kV AC   |
| Rated control voltage (relay contacts)               | 24 V DC<br>24 V AC<br>208 V AC<br>240 V AC  |
| 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   |

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| Rated control supply voltage (Us) at DC - min                                    |  | 0 V  |
| Rated control supply voltage (Us) at DC - max                                    |  | 0 V  |
| Rated operational current  |  | 1 A (24 V AC-1, relay contacts)<br>1 A (110 V AC-1, relay contacts)<br>1 A (230 V AC-1, relay contacts)  |
| Pick-up power consumption (shunt release)  |  | 2.5 VA/W   |
| Switching capacity (reference value) - min                                       |  | 0.1 mA / 0.1 VDC   |
| 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   |
| Overvoltage category   |  | III  |
| Pollution degree   |  | 2  |
|  |  |  |
| Number of contacts (change-over contacts)  |  | 0  |
| Number of contacts (normally closed contacts)                                    |  | 0  |
| Number of contacts (normally open contacts)                                      |  | 2  |
| Number of relays   |  | 2  |
| Connection type  |  | With push in terminal  |
| Strip length   |  | 8 mm (relay contact connection)  |
| Special features   |  | The breakers are actuated by a voltage pulse or by applying a no-break current. For signaling commands or different states of the circuit-breaker. Two relays per unit. The activation criteria can be configured in the trip unit. Configuration via communication or circuit breaker display or front USB port and Eaton Power Xpert Protection Manager. If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Only for use in combination with circuit-breakers with electronic trips. Shunt trip relay modules cannot be installed simultaneously with make-before-break auxiliary contact NZM...-XHIV, undervoltage trip NZM...-XU... or shunt trip NZM...-XA. Relay coil is controlled by trip unit. Relay contacts for control wiring. Relays can be used for controlling remote operator with Us=208-204 V AC. Control wiring on push-in clamps. Cannot be used with the PXR10 NZM-AX electronic trip. |
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| Terminal capacity (stranded cable)   |  | 0.25 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) for undervoltage release<br>0.25 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) at shunt release (insulated ferrule according to DIN46224 / 4)<br>0.25 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) at shunt release<br>24 - 16 AWG (1x) for undervoltage release<br>0.25 mm <sup>2</sup> - 0.75 mm <sup>2</sup> (1x) at shunt release (uninsulated ferrule according to DIN46228 / 1)<br>24 - 16 AWG (1x) at shunt release  |
| Terminal capacity (solid cable)  |  | 0.2 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) at shunt release<br>0.2 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (1x) for undervoltage release   |
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| 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.   |

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| 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

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|---|---|------------------|
| 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 | 208 - 250        |
| Rated control supply voltage Us at AC 60HZ  | V | 208 - 250        |
| Rated control supply voltage Us at DC   | V | 0 - 0            |
| 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   |   | 2                |
| 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  |   | Yes              |
| Suitable for overload relay   |   | No               |