



## Shunt release for NZM4, 24AC/DC, Push-in terminals

Part no.

NZM4-XA24AC/DC-PI

Catalog No.

189805

Similar to illustration

## Delivery program

|                       |                |   |   |
|-----------------------|----------------|---|---|
| Product range         |                |   | Accessories   |
| Accessories           |                |   | Shunt release   |
| Accessories           |                |   | Shunt releases  |
| Standard/Approval     |                |   | UL/CSA, IEC   |
| Construction size     |                |   | NZM4  |
| Description           |                |   | When the shunt release is live, contact with the circuit-breaker's main contacts on switching on is reliably prevented.<br>Shunt release modules cannot be installed simultaneously with early-make contact NZM...-XHIV, undervoltage release NZM...-XU..., or relays modules NZM...-X2A... |
| Connection type       |                |   | with push in terminal   |
| Auxiliary contacts    |                |   | without auxiliary contact   |
| Rated control voltage | U <sub>s</sub> | V | 24 V AC/DC  |
| For use with          |                |   | NZM4(-4), N(S)4(-4)   |

## Design verification as per IEC/EN 61439

|  |  |  |  |
|--|--|--|--|
| IEC/EN 61439 design verification   |  |  |  |
| 10.2 Strength of materials and parts   |  |  |  |
| 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties   |  |  |  |
| 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 | 24 - 24          |
| Rated control supply voltage Us at AC 60HZ  | V | 24 - 24          |
| Rated control supply voltage Us at DC   | V | 24 - 24          |
| 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   |   | 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  |   | Yes              |
| Suitable for overload relay   |   | No               |

## Approvals

|                             |  |   |
|-----------------------------|--|---|
| Product Standards           |  | UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking |
| UL File No.                 |  | E140305   |
| UL Category Control No.     |  | DIHS  |
| CSA File No.                |  | 22086   |
| CSA Class No.               |  | 1437-01   |
| North America Certification |  | UL listed, CSA certified                        |