
Similar to illustration

# Shunt release, 12VAC/DC, +1early N/O

**Part no.** NZM2/3-XAHIV12AC/DC
**Article no.** 259808

Powering Business Worldwide

## Delivery program

| | | | |
|---|---|---|---|
| Product range | | | Accessories |
| Accessories | | | Shunt release |
| Accessories | | | Shunt releases |
| Standard/Approval | | | UL/CSA, IEC |
| Construction size | | | NZM2/3 |
| Description | | | Cannot be used in conjunction with NZM...-XR... remote operator.<br>When the shunt release is energized, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented.<br>Early make of auxiliary contact on switching on and off (manual operation): approx. 20 ms.<br>Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... shunt release. |
| Connection type | | | With bolt connection |
| Auxiliary contacts | | | with early-make auxiliary contact |
| Rated control voltage | $U_s$ | V | 12 V AC/DC |
| For use with | | | NZM2(-4), N(S)2(-4)<br>NZM3(-4), N(S)3(-4) |

## Technical data

### Shunt release

| | | | |
|---|---|---|---|
| Rated control voltage | $U_s$ | V | |
| AC | $U_s$ | V AC | 12 - 440 |
| DC | $U_s$ | V DC | 12 - 440 |
| Frequency range | | Hz | 50/60/200/400, DC |
| Operating range | | | |
| AC | x $U_s$ | | 0.7 - 1.1 |
| DC | x $U_s$ | | 0.7 - 1.1 |
| Power consumption | | | |
| Pick-up AC/DC | | VA/W | 2.5 |
| Sealing AC/DC | | VA/W | 2.5 |
| Maximum opening delay (response time until opening of the main contacts) | | ms | 20 |
| Maximum duty factor | | ms | ∞ |
| Minimum command time | | ms | 10 … 15 |
| Terminal capacities | | $mm^2$ | |
| Solid or flexible conductor, with ferrule | | $mm^2$ | 1 x (0,75 - 2,5)<br>2 x (0,75 - 2,5) |
| | | AWG | 1 x (18 … 14)<br>2 x (18 … 14) |

## 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 6.0

| | | |
|---|---|---|
| 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@ss8.1-27-37-04-18 [AKF016010]) | | |
| Rated control supply voltage Us at AC 50HZ | V | 12 - 12 |
| Rated control supply voltage Us at AC 60HZ | V | 12 - 12 |
| Rated control supply voltage Us at DC | V | 24 - 24 |
| 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 |
| 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 | | Yes |
| Suitable for off-load switch | | Yes |
| Suitable for motor safety switch | | No |
| Suitable for overload relay | | No |

## Additional product information (links)

| **IL01208005Z (AWA1230-1915) Shunt release, Undervoltage release, Early-make auxiliary contact** | |
|---|---|
| IL01208005Z (AWA1230-1915) Shunt release, Undervoltage release, Early-make auxiliary contact | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01208005Z2011_08.pdf |