



Shunt release, 110-130VAC/DC, +1early N/O

Part no. **NZM4-XAHIV110-130AC/DC**
 Catalog No. **266474**

Similar to illustration

Delivery program

| | | | |
|-----------------------|-------|---|---|
| Product range | | | Accessories |
| Accessories | | | Shunt release |
| Accessories | | | Shunt releases |
| Standard/Approval | | | UL/CSA, IEC |
| Construction size | | | NZM4 |
| Description | | | 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 (manual operation): approx. 90 ms. Shunt releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release. |
| Connection type | | | With bolt connection |
| Auxiliary contacts | | | with early-make auxiliary contact |
| Rated control voltage | U_s | V | 110 - 130 V AC/DC |
| For use with | | | NZM4(-4), N(S)4(-4) |

Technical data

Shunt release

| | | | |
|--|---------|-----------------|--------------------------------------|
| Rated control voltage | U_s | V | |
| AC | U_s | V AC | 110 - 130 |
| DC | U_s | V DC | 110 - 130 |
| 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 | 22 |
| 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) 2 x (0,75 - 2,5) |
| | | AWG | 1 x (18 ... 14) 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. |

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| 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 7.0

| | | |
|---|---|------------------|
| 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 | 110 - 130 |
| Rated control supply voltage Us at AC 60HZ | V | 110 - 130 |
| Rated control supply voltage Us at DC | V | 110 - 130 |
| 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 |

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. | | 022086 |
| CSA Class No. | | 1437-01 |
| North America Certification | | UL listed, CSA certified |

Additional product information (links)

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| IL01210005Z (AWA1230-2027) Shunt release, Undervoltage release, Early-make auxiliary contact | |
| IL01210005Z (AWA1230-2027) Shunt release, Undervoltage release, Early-make auxiliary contact | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01210005Z2010_10.pdf |