

Undervoltage release, 480-525VAC, +2early N/O

Part no. Article no. NZM2/3-XUHIV2024DC 259659



Similar to illustration

| Delivery program | | | |
|-----------------------|----|---|--|
| Product range | | | Accessories |
| Accessories | | | Undervoltage release |
| Accessories | | | Undervoltage release with early-make auxiliary contact |
| Standard/Approval | | | UL/CSA, IEC |
| Construction size | | | NZM2/3 |
| Description | | | Undervoltage release with 2 early-make auxiliary contacts, e.g., for early-make connection of undervoltage release in main switch applications, as well as for interlock and load shedding circuits. For use with emergency switching off devices in conjunction with Emergency switching off button. When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented. Early make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms Cannot be used in conjunction with NZMXR remote operator. Undervoltage releases cannot be installed simultaneously with NZMXHIV early-make auxiliary contact or NZMXA shunt release. |
| Connection type | | | Contacts 3.23 and 3.24 with separate 3 m connection cables |
| Auxiliary contacts | | | with two separate early-make auxiliary contacts |
| Rated control voltage | Us | V | 24 V DC |
| For use with | | | NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4) |

Technical dataUndervoltage release

| 3 | | | |
|--|-------|-----------------|--------------------------------------|
| Rated control voltage | U_s | V | |
| AC | U_s | V AC | 24 - 600 |
| DC | U_s | V DC | 12 - 250 |
| Rated control voltage | U_s | V | 24 V DC |
| Operating range | | | |
| Drop-out voltage | | $x U_s$ | 0.35 - 0.7 |
| Pick-up voltage | x Uc | | 0.85 - 1.1 |
| Power consumption | | | |
| AC | | | |
| Pick-up AC | | VA | 1.5 |
| Sealing AC | | VA | 1.5 |
| DC | | xU_s | |
| Pick-up DC | | W | 0.8 |
| Sealing DC | | W | 0.8 |
| Maximum opening delay (response time until opening of the main contacts) | | ms | 19 |
| Minimum command time | | ms | 10 - 15 |
| Terminal capacities | | | |
| 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. |
| 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 bobserved. |
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must bobserved. |
| 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) / Under voltage coil (EC001022) | | | |
|---|---|------------------|--|
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Undervoltage trip (ecl@ss8.1-27-37-04-17 [AKF015010]) | | | |
| Rated control supply voltage Us at AC 50HZ | V | 0 - 0 | |
| Rated control supply voltage Us at AC 60HZ | V | 0 - 0 | |
| Rated control supply voltage Us at DC | V | 24 - 24 | |
| Voltage type for actuating | | DC | |
| 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 | |
| Delayed | | No | |
| 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)

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