DATASHEET - NZM1-XUHIV20LK208-240AC



Undervoltage release, 208-240VAC +2early N/O



Part no. NZM1-XUHIV20LK208-240AC Catalog No. 284404

Similar to illustration

| Accessories Accessories Accessories Construction size Description Construction size Description Construction size Consection type Connection type Auxiliary contacts Auxiliary contacts Auxiliary contacts Auxiliary contacts Undervoltage release with early-make auxiliary contacts UL/CSA, IEC NZM1 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-stop devices in connection with an emergency-stop button. When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on. 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 Auxiliary contact Ocil terminals with 3 m of loose connection cables Auxiliary contact terminals wired to terminal block with two separate early-make auxiliary contacts With two separate early-make auxiliary contacts | 71 0 | | | |
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| Rated control voltage U _s V 208 - 240 V 50/60 Hz | Connection type | | | |
| | Auxiliary contacts | | | with two separate early-make auxiliary contacts |
| For use with NZM1(-4), N(S)1(-4) | Rated control voltage | U_{s} | V | 208 - 240 V 50/60 Hz |
| | For use with | | | NZM1(-4), N(S)1(-4) |

Technical data

| Unde | voltage | re | leas |
|------|---------|----|------|

| Rated control voltage | Us | V | |
|--|-------|----------|----------------------|
| AC | U_s | V AC | 208 - 240 |
| Rated control voltage | U_s | V | 208 - 240 V 50/60 Hz |
| 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 | | $x U_s$ | |
| 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 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. |

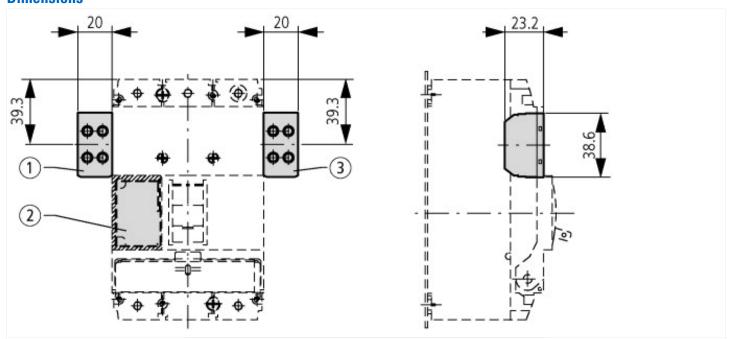
Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Under voltage coil (EC001022) Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Undervoltage trip (ecl@ss10.0.1-27-37-04-17 [AKF015013]) 208 - 240 Rated control supply voltage Us at AC 50HZ 208 - 240 Rated control supply voltage Us at AC 60HZ ٧ ٧ Rated control supply voltage Us at DC 0 - 0 AC Voltage type for actuating 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 |

Dimensions



①
NZM1-XA(HIV)
NZM1-XU(HIV)(20)
NZM1-XHIV
②
NZM1-XA(HIV)(L)
NZM1-XU(V)(HIV)(L)(20)
NZM1-XHIV(L)
③
NZM1-XHIVR

Additional product information (links)

IL01203002Z (AWA1230-1914) Shunt release, Undervoltage release, Early-make auxiliary contact

IL01203002Z (AWA1230-1914) Shunt release, Undervoltage release, Early-make auxiliary contact ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01203002Z2010_11.pdf