# DATASHEET - UVU-NZM

**Delay unit**

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| **Part no.** | **UVU-NZM** |
| **Catalog No.** | **260154** |
| **EL-Nummer (Norway)** | **0004358722** |

Powering Business Worldwide™

## Delivery program

| | | | |
|---|---|---|---|
| Product range | | | Accessories |
| Accessories | | | Undervoltage release |
| Accessories | | | Undervoltage releases, off-delayed |
| Standard/Approval | | | IEC |
| Construction size | | | NZM1/2/3/4 |
| Description | | | Delay unit for combination with special undervoltage releases.<br>For use with emergency-stop devices in connection with an emergency-stop button.<br>not UL/CSA approved<br>Voltage dips of less than the setting between 0.06 – 16 s do not cause disconnection of the NZM circuit-breaker or N switch-disconnector.<br>Delay time can be set from: 70 ms – 4 s.<br>With additional external capacitor: 30,000 µF ≧ 35 V to 8 s, 90,000 µF ≧ 35 V to 16 s.<br>A special release is required.<br>Cannot be installed simultaneously with separate NZM...-XHIV early-make auxiliary contact or NZM...-XA... shunt release.<br>Delay unit for separate installation. Fixing: top-hat rail or screws.<br>For other operating voltages use a control transformer. |
| Connection type | | | With bolt connection |
| For use with | | | NZM1(-4), 2(-4), 3(-4), 4(-4)<br>N(S)1(-4), 2(-4), 3(-4), 4(-4)<br>50/60 Hz<br>220 V - 240 V<br>380 V - 440 V<br>480 V - 550 V<br>DC/AC<br>24 V |

## Technical data

### Undervoltage releases, off-delayed

| | | | |
|---|---|---|---|
| Rated operational voltage | $U_e$ | V | |
| Alternating voltage at 50/60 Hz | $U_e$ | V AC | 24, 220 - 550 |
| DC | $U_e$ | V DC | 24 |
| Inrush current (peak value) | $I_e$ | mA | < 500 |
| Power consumption | | VA | 50 |
| Delay time | $t_{sd}$ | ms | 70 - 4000 |
| With additional external capacitor, 90.000 µF ≧ 35 V | | s | 16 |
| With additional external capacitor, 30.000 µF ≧ 35 V | | s | 8 |
| Terminal capacities | | $mm^2$ | |
| Solid or flexible conductor, with ferrule | | $mm^2$ | 1 x (0,5 - 2,5)<br>2 x (0,5 - 1,5) |
| | | AWG | 1 x (20 - 14)<br>2 x (20 - 16) |

## Design verification as per IEC/EN 61439

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|---|---|---|---|
| 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. |

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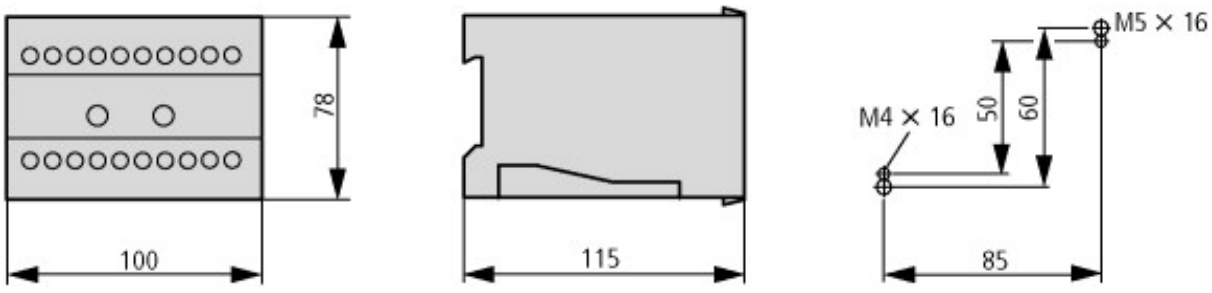
| 10.2.7 Inscriptions | | | Meets the product standard's requirements. |
| 10.3 Degree of protection of ASSEMBLIES | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | | | Meets the product standard's requirements. |
| 10.5 Protection against 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]) | | |
| Rated control supply voltage Us at AC 50HZ | V | 24 - 550 |
| Rated control supply voltage Us at AC 60HZ | V | 24 - 550 |
| Rated control supply voltage Us at DC | V | 24 - 24 |
| Voltage type for actuating | | AC/DC |
| 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 |
| Delayed | | Yes |
| Suitable for power circuit breaker | | Yes |
| Suitable for off-load switch | | Yes |
| Suitable for motor safety switch | | No |
| Suitable for overload relay | | No |

## Dimensions




Capacitor unit
NZM-XCM

## Additional product information (links)

**IL01219005Z (AWA1230-1814) Undervoltage release, off-delayed**

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| IL01219005Z (AWA1230-1814) Undervoltage release, off-delayed | https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL01219005Z2020_10.pdf |