DATASHEET - NZM1-XU380-440AC

Undervoltage release, 380-440VAC



| Part no. | NZM1-XU380-440AC 259444 |
|-----------------------|----------------------------|
| EL Number (Norway) | 4315546 |

| General specifications | |
|--|---|
| Product name | Eaton Moeller series NZM release |
| Part no. | NZM1-XU380-440AC |
| EAN | 4015082594442 |
| Product Length/Depth | 37 millimetre |
| Product height | 66 millimetre |
| Product width | 32 millimetre |
| Product weight | 0.073 kilogram |
| Compliances | UL/CSA IEC RoHS conform |
| Certifications | UL listed UL489 CSA (Class No. 1437-01) UL (Category Control Number DIHS) CSA certified UL (File No. E140305) CE marking IEC60947 CSA-C22.2 No. 5-09 CSA (File No. 22086) |
| Product Tradename | NZM |
| Product Type | Accessories |
| Product Sub Type | Release |
| Delivery program | |
| Туре | Accessory Undervoltage release |
| Special features | Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage sinks below 35 – 70% US. 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. Undervoltage releases cannot be installed simultaneously with NZMXHIV early-make auxiliary contact or NZMXA shunt release. |
| Frame | NZM1 |
| Suitable for | Off-load switch |
| Used with | NZM1(-4), N(S)1(-4) |
| Technical Data - Electrical | |
| Voltage type | AC |
| Rated control voltage (relay contacts) | 440 V AC 380 V AC |
| Rated control supply voltage | 380 - 440 V 50/60 Hz |
| Rated control supply voltage (Us) at AC, 50 Hz - min | 380 V |
| Rated control supply voltage (Us) at AC, 50 Hz - max | 440 V |
| Rated control supply voltage (Us) at AC, 60 Hz - min | 380 V |
| Rated control supply voltage (Us) at AC, 60 Hz - max | 440 V |
| Rated control supply voltage (Us) at DC - min | 0 V |
| Rated control supply voltage (Us) at DC - max | 0 V |
| Voltage tolerance - min | 0.85 |
| Voltage tolerance - max | 1.1 |
| Drop-out voltage of undervoltage release AC/DC - min | 0.35 x Us |
| Drop-out voltage of undervoltage release AC/DC - max | 0.7 x Us |
| Power consumption | 0.8 W (sealing DC) 1.5 VA (sealing AC) |
| Pick-up power consumption at AC (undervoltage release) | 1.5 V-A |

| Pick-up power consumption at DC (undervoltage release) | 0.8 W |
|--|--|
| Reaction time | 19 ms |
| Minimum command time - min | 10 ms |
| Minimum command time - max | 15 ms |
| Electric connection type | Screw connection |
| echnical Data - Mechanical | |
| Number of contacts (change-over contacts) | 0 |
| Number of contacts (normally closed contacts) | 0 |
| Number of contacts (normally open contacts) | 0 |
| Connection type | With terminal block on the left-hand switch side |
| Special features | Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage sinks below 35 – 70% US. 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. Undervoltage releases cannot be installed simultaneously with NZMXHIV early-make auxiliary contact or NZMXA shunt release. |
| echnical Data - Mechanical - Terminals | |
| Terminal capacity (solid/flexible conductor) | 0.75 mm ² - 2.5 mm ² (1x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) at shunt release 0.75 mm ² - 2.5 mm ² (1x) at shunt release with ferrule 0.75 mm ² - 2.5 mm ² (2x) at shunt release with ferrule 18 - 14 AWG (2x) for undervoltage releases, off-delayed 18 - 14 AWG (2x) at shunt release 0.75 mm ² - 2.5 mm ² (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed |
| Design verification as per IEC/EN 61439 | |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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. |
| 10.9.2 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 l observed. |
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must l observed. |
| 10.13 Mechanical function | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 9.0

| 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@ss13-27-37-04-17 [AKF015018]) | | | | |
| Rated control supply voltage AC 50 Hz | V | 380 - 440 | | |
| Rated control supply voltage AC 60 Hz | V | 380 - 440 | | |
| Rated control supply voltage DC | V | 0 - 0 | | |
| Voltage type for actuating | | AC | | |
| 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 | No |
| Suitable for power circuit breaker | No |
| Suitable for off-load switch | Yes |
| Suitable for motor safety switch | No |
| Suitable for overload relay | No |