# DATASHEET - NZM1-XUHIV20L18DC

**Under Undervoltage release, 18VDC, +2N/O early**

**Part no.** **NZM1-XUHIV20L18DC**
**171807**

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| **General specifications** | |
| Product name | Eaton Moeller series NZM release |
| Part no. | NZM1-XUHIV20L18DC |
| EAN | 4015081683413 |
| Product Length/Depth | 37 millimetre |
| Product height | 66 millimetre |
| Product width | 32 millimetre |
| Product weight | 0.173 kilogram |
| Compliances | RoHS conform<br>IEC<br>UL/CSA |
| Product Tradename | NZM |
| Product Type | Accessories |
| Product Sub Type | Release |
| **Delivery program** | |
| Type | Accessory Undervoltage release Undervoltage release with early-make auxiliary contact |
| Special features | 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 NZM...-XR... remote operator. Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release. |
| Frame | NZM1 |
| Fitted with: | Two separate early-make auxiliary contacts |
| Suitable for | Off-load switch |
| Used with | NZM1(-4), N(S)1(-4) |
| **Technical Data - Electrical** | |
| Voltage type | AC |
| Rated control supply voltage | 18 V DC |
| Rated control supply voltage (Us) at AC, 50 Hz - min | 0 V |
| Rated control supply voltage (Us) at AC, 50 Hz - max | 0 V |
| Rated control supply voltage (Us) at AC, 60 Hz - min | 0 V |
| Rated control supply voltage (Us) at AC, 60 Hz - max | 0 V |
| Rated control supply voltage (Us) at DC - min | 18 V |
| Rated control supply voltage (Us) at DC - max | 18 V |
| Electric connection type | Screw connection |
| **Technical Data - Mechanical** | |
| Number of contacts (change-over contacts) | 0 |
| Number of contacts (normally closed contacts) | 0 |
| Number of contacts (normally open contacts) | 2 |
| Connection type | With 3 m connection cable instead of screw termination |
| Special features | 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 NZM...-XR... remote operator. Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release. |
| **Design verification as per IEC/EN 61439** | |
| 10.2.2 Corrosion resistance | Meets the product standard's requirements. |

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| 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 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 9.0

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| 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 | 0 - 0 |
| Rated control supply voltage AC 60 Hz | V | 0 - 0 |
| Rated control supply voltage DC | V | 18 - 18 |
| Voltage type for actuating | | AC |
| 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 | | No |
| Suitable for off-load switch | | Yes |
| Suitable for motor safety switch | | No |
| Suitable for overload relay | | No |


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