



Auxiliary contact, 2early N/O, operates as an early-make contact

Part no. NZM2/3-XHIV
Catalog No. 259430
EL-Nummer (Norway) 0004358870

Technical data

Auxiliary contacts

| | | | | | | | |
|--|----------------------------------|-----------------|---|------------------|----------|-----------|------|
| Rated operational voltage | U _e | V | | | | | |
| Rated operational voltage | U _e | V AC | 500 | | | | |
| Rated operational voltage, max. | U _e | V DC | 220 | | | | |
| Conventional thermal current | I _{th} = I _e | CSA | 4 | | | | |
| Rated operational current | I _e | A | | | | | |
| Different rated operational currents when used as auxiliary contact for NZM circuit-breaker | | | | | | | |
| | | | bei AC = 50/60 Hz | | | | |
| | | | Bemessungsbetriebsstrom | | | | |
| | | AC-13 | 15 V | I _e A | M22-K... | M22-CK... | XHIV |
| | | 230 V | I _e A | 4 | 4 | 4 | |
| | | 400 V | I _e A | 2 | - | 2 | |
| | | 500 V | I _e A | 1 | - | 1 | |
| | | DC-12 | 4 V | I _e A | 3 | 3 | 3 |
| | | 42 V | I _e A | 1.7 | 1 | 1.5 | |
| | | 60 V | I _e A | 1.2 | 0.8 | 0.8 | |
| | | 110 V | I _e A | 0.8 | 0.5 | 0.5 | |
| | | 220 V | I _e A | 0.3 | 0.2 | 0.2 | |
| Short-circuit protection | | | | | | | |
| max. fuse | | A gG/gL | 10 | | | | |
| Max. miniature circuit-breaker | | A | FAZ-B6 | | | | |
| Operating times | | | Early-make time of the HIV compared to the main contacts during with make and break switching. (switch times with manual operation): NZM1, PN1, N(S)1: ca. 20 ms NZM2, PN2, N(S)2: ca. 20 ms NZM3, PN3, N(S)3: ca. 20 ms NZM4, N(S)4: approx. 90 ms, the HIV switch early Off switching not forward. | | | | |
| Terminal capacities | | mm ² | | | | | |
| 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) | | | | |
| UL/CSA | | | | | | | |
| Rated operational current | I _e | A | 2.5 A - 240 V AC 1 A - 250 V DC | | | | |
| Heavy Pilot Duty | | | C300/R300 | | | | |
| Other technical data (sheet catalogue) | | | Maximum equipment and position of the internal accessories Time differences ON-OFF | | | | |

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) / Auxiliary contact block (EC000041)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])

| | | |
|--|---|------------------|
| Number of contacts as change-over contact | | 0 |
| Number of contacts as normally open contact | | 2 |
| Number of contacts as normally closed contact | | 0 |
| Number of fault-signal switches | | 0 |
| Rated operation current I _e at AC-15, 230 V | A | 4 |
| Type of electric connection | | Screw connection |
| Model | | Integrable |
| Mounting method | | Other |
| Lamp holder | | None |

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 |



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