

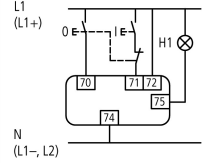
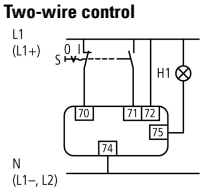
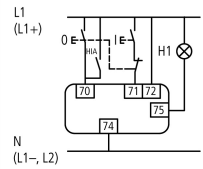


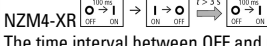
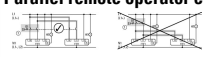


Remote operator, 48-60VDC, for size 3

Part no. **NZM3-XR48-60DC**
 Catalog No. **259856**

Similar to illustration

Delivery program

| | | | |
|---------------------------|----------------|----|---|
| Product range | | | Accessories |
| Accessories | | | Remote operator, can be synchronized |
| Rated operating frequency | | | DC |
| Standard/Approval | | | UL/CSA, IEC |
| Construction size | | | NZM3 |
| Description | | | <p>For remote switching of circuit-breakers and switch-disconnectors.</p> <p>ON and OFF switching and resetting by means of two-wire or three-wire control.</p> <p>Local switching by hand possible.</p> <p>Lockable in the 0 position of the remote operator with up to 3 padlocks (hasp thickness: 4 – 8 mm)</p> <p>Can be synchronized</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Three-wire control</p>  <p>Two-wire control</p>  <p>Three-wire control with automatic reset to the 0 position after the switch has tripped</p>  </div> <div style="width: 45%;"> <p>Please note during engineering:</p> <p>Terminal 70/71: NZM-XR: Contact loading according to technical data NZM2-XRD: Full current flows through the contact during make and break! RMQ series contact elements can be used for the NZM2(3.4)-XR(D)...remote operators.</p> <p>Terminal 75: NZM-XR: Operational readiness signal when cover closed and not locked. NZM2-XRD: Operational readiness signal when sliding switch set to Auto. Sliding switch with three positions: Manual/Auto/Locked for reliable differentiation of connected positions. AC-15: 400 V; 2 A DC-13: 220 V; 0.2 A</p> <p>Switching cycle:</p> <p>NZM2-XR </p> <p>NZM3-XR </p> <p>NZM4-XR </p> <p>The time interval between OFF and ON is 3 seconds. On commands received during the time interval are ignored within the first 3 seconds after switch off.</p> <p>Parallel remote operator connection</p>  </div> </div> |
| Closing delay | | ms | 80 |
| Break time | | ms | 1000 |
| Rated control voltage | U _s | V | 48 - 60 V DC |
| Number of poles | | | 3/4 pole |

| | | |
|---|--|---|
| For use with | | NZM3(-4) N(S)3(-4) |
| Project planning information | | Cannot be combined with switch-disconnector PN... M22-CK11(20/02) dual auxiliary switch cannot be combined with NZM3-XR... remote operator |
| Engineering information (sheet catalog) | | 2/3-wire control and circuit diagrams |

Technical data

Remote operator

| Rated control voltage | U _s | V | |
|---|----------------|------------------|------------|
| DC | U _s | V DC | 48 - 60 |
| Operating range | | | |
| AC | | x U _s | 0.85 - 1.1 |
| DC | | x U _s | 0.85 - 1.1 |
| Motor rating | | | |
| DC | | | |
| 24 V ... 30 V DC | P | W | 250 |
| Minimum signal duration | | | |
| with switch on | | ms | 30 |
| with switch off | | ms | 250 |
| Lifespan, mechanical | Operations | | 15000 |
| Maximum operating frequency | | Ops/h | |
| Max. operating frequency | | Ops/h | 60 |
| Terminal capacities | | mm ² | |
| Solid or flexible conductor, with ferrule | | mm ² | 0,75 - 2,5 |
| | | AWG | 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) / Motor operator for power circuit-breaker (EC001030)

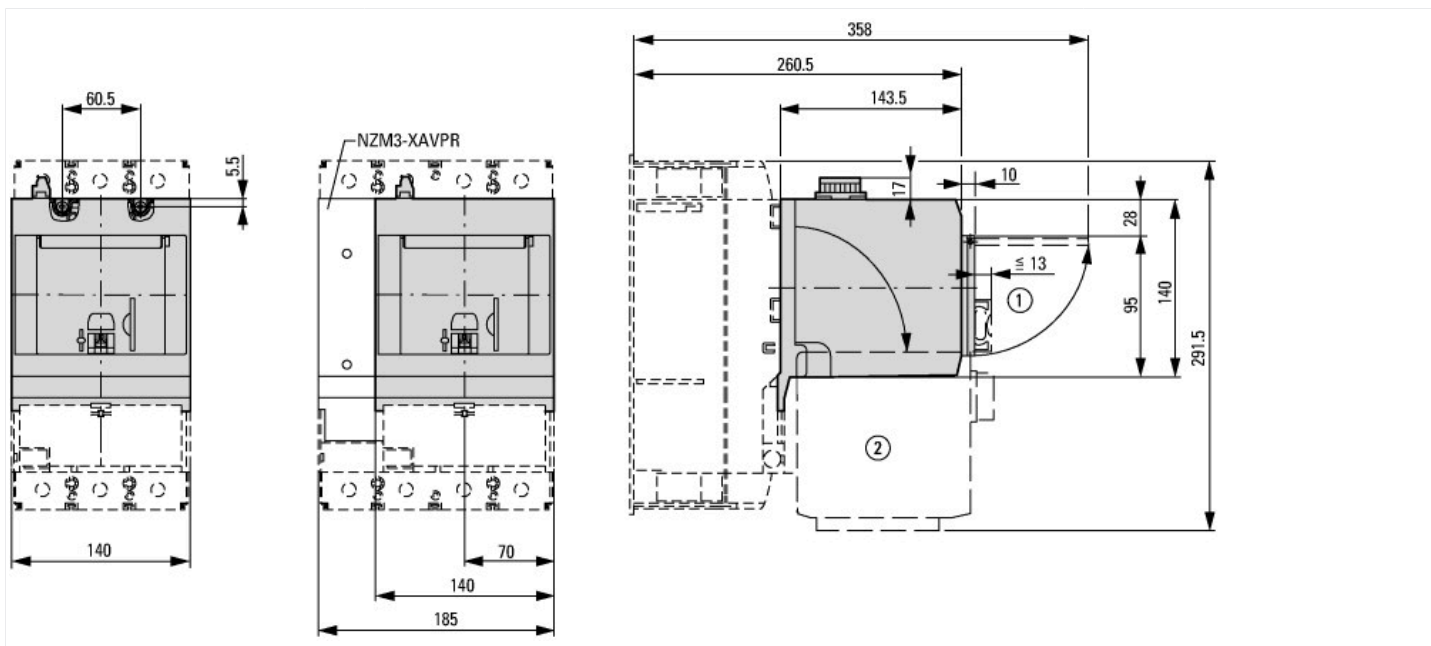
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Electrical drive for circuit breakers (ec1@ss10.0.1-27-37-04-12 [AKF010013])

| | | |
|--|---|-------------|
| Type of switch drive | | Motor drive |
| Rated control supply voltage Us at AC 50HZ | V | 0 - 0 |
| Rated control supply voltage Us at AC 60HZ | V | 0 - 0 |
| Rated control supply voltage Us at DC | V | 48 - 60 |
| Voltage type for actuating | | DC |

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



Additional product information (links)

IL01208006Z (AWA1230-2018) remote operator NZM3

IL01208006Z (AWA1230-2018) remote operator NZM3 ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01208006Z2019_05.pdf

2/3-wire control and circuit diagrams <http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.153>