

Door coupling rotary handle, black, lockable on the handle+switch, size 1

Part no. NZM1-XTVDV-NA  
Catalog No. 100683

## Delivery program

|                              |  |                                                                                                                                                                                                             |
|------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product range                |  | Accessories                                                                                                                                                                                                 |
| Accessories                  |  | Door coupling rotary handle                                                                                                                                                                                 |
| Standard/Approval            |  | UL/CSA, IEC                                                                                                                                                                                                 |
| Construction size            |  | NZM1                                                                                                                                                                                                        |
| Description                  |  | Door coupling rotary handle for operating the switch through a closed control panel door                                                                                                                    |
| Function                     |  | Standard, black/grey                                                                                                                                                                                        |
| Protection class             |  | IP66<br>UL/CSA Type 4X, Type 12                                                                                                                                                                             |
| Locking facility             |  | lockable on the handle on the switch using up to 3 padlocks<br>With door interlock                                                                                                                          |
| Door interlock               |  | Not defeated in the locked OFF position.<br>Door opens only with active rotation beyond the 0 position<br>Can be modified such that it can be defeated from the outside using a screwdriver                 |
| Project planning information |  | Complete including rotary drive and coupling parts<br>Extension shaft additionally required.<br>Cannot be combined with mechanical interlock<br>External warning plate/designation label can be clipped on. |
| For use with                 |  | NZM1, N(S)1                                                                                                                                                                                                 |
| lockable                     |  | double                                                                                                                                                                                                      |

## 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 8.0

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| Low-voltage industrial components (EG000017) / Handle for power circuit breaker (EC000229)                                                                                                     |  |  |        |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Handle for switch devices (ecl@ss10.0.1-27-37-04-14 [AKF012014]) |  |  |        |
| With restart blockage                                                                                                                                                                          |  |  | No     |
| With key lock                                                                                                                                                                                  |  |  | No     |
| Padlock locking                                                                                                                                                                                |  |  | Yes    |
| Colour                                                                                                                                                                                         |  |  | Black  |
| Suitable for emergency stop                                                                                                                                                                    |  |  | No     |
| With extension shaft                                                                                                                                                                           |  |  | No     |
| Suitable for power circuit breaker                                                                                                                                                             |  |  | Yes    |
| Suitable for switch disconnecter                                                                                                                                                               |  |  | Yes    |
| Degree of protection (NEMA)                                                                                                                                                                    |  |  | 4X, 12 |

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                                                           |
| Specially designed for North America |  |  | Rotary handle with additional 4th position, beyond OFF, to release door interlock. |
| Degree of Protection                 |  |  | IEC: IP66, UL/CSA Type 4X, 12                                                      |

Dimensions

|                                                                     |
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| Minimum door coupling rotary handle clearance from door pivot point |