

**Mushroom actuator, RMQ-Titan, Mushroom, maintained, Mushroom red, red, Blank, Bezel: titanium**



**Part no.** M22-DRP-R  
**Catalog No.** 216745  
**Alternate Catalog No.** M22-DRP-RQ  
**EL-Nummer (Norway)** 4355685

## Delivery program

|                            |   |    |                                                          |
|----------------------------|---|----|----------------------------------------------------------|
| Product range              |   |    | RMQ-Titan                                                |
| Basic function             |   |    | Mushroom-headed pushbutton                               |
| Mounting hole diameter     | Ø | mm | 22.5                                                     |
| Single unit/Complete unit  |   |    | Single unit                                              |
| Design                     |   |    | Mushroom                                                 |
|                            |   |    | maintained                                               |
| <b>Colour</b>              |   |    |                                                          |
| Mushroom                   |   |    | red                                                      |
| <b>Button plate</b>        |   |    |                                                          |
| button plate               |   |    | red                                                      |
|                            |   |    | Blank                                                    |
| Degree of Protection       |   |    | IP66, IP67, IP69                                         |
| Front ring                 |   |    | Bezel: titanium                                          |
| Connection to SmartWire-DT |   |    | yes<br>with SWD-RMQ connections                          |
| Function                   |   |    | maintained                                               |
| <b>Instructions</b>        |   |    | Stay-put/spring-return function can be changed on device |

## Technical data

### General

|                             |              |                   |                                                                                |
|-----------------------------|--------------|-------------------|--------------------------------------------------------------------------------|
| Standards                   |              |                   | IEC/EN 60947<br>VDE 0660                                                       |
| Lifespan, mechanical        | Operations   | x 10 <sup>6</sup> | > 1                                                                            |
| Operating frequency         | Operations/h |                   | ≤ 1800                                                                         |
| Actuating force             |              | n                 | ≤ 5                                                                            |
| Climatic proofing           |              |                   | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Degree of Protection        |              |                   | IP66, IP67, IP69                                                               |
| Ambient temperature         |              |                   |                                                                                |
| Open                        |              | °C                | -25 - +70                                                                      |
| Storage                     |              | °C                | - 40 - + 80                                                                    |
| Mounting position           |              |                   | As required                                                                    |
| Mechanical shock resistance |              | g                 | 30<br>Shock duration 11 ms<br>Sinusoidal<br>according to IEC 60068-2-27        |
| shipping classification     |              |                   | DNV<br>GL<br>LR                                                                |

## Design verification as per IEC/EN 61439

|                                                          |                   |   |   |
|----------------------------------------------------------|-------------------|---|---|
| Technical data for design verification                   |                   |   |   |
| Rated operational current for specified heat dissipation | I <sub>n</sub>    | A | 0 |
| Heat dissipation per pole, current-dependent             | P <sub>vid</sub>  | W | 0 |
| Equipment heat dissipation, current-dependent            | P <sub>vid</sub>  | W | 0 |
| Static heat dissipation, non-current-dependent           | P <sub>vs</sub>   | W | 0 |
| Heat dissipation capacity                                | P <sub>diss</sub> | W | 0 |

|                                                                                                                        |    |                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------|
| Operating ambient temperature min.                                                                                     | °C | -25                                                                                                      |
| Operating ambient temperature max.                                                                                     | °C | 70                                                                                                       |
| 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                                                                       |    | Please enquire                                                                                           |
| 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                                                                                                 |    | Not applicable.                                                                                          |
| 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

|                                                                                                                                                                                                                    |    |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------|
| Low-voltage industrial components (EG000017) / Front element for mushroom push-button (EC001038)                                                                                                                   |    |            |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for mushroom push-button actuators (ecI@ss10.0.1-27-37-12-12 [AKF030014]) |    |            |
| Colour button                                                                                                                                                                                                      |    | Red        |
| Construction type lens                                                                                                                                                                                             |    | Round      |
| Diameter cap                                                                                                                                                                                                       | mm | 36.5       |
| Hole diameter                                                                                                                                                                                                      | mm | 22.5       |
| Width opening                                                                                                                                                                                                      | mm | 0          |
| Height opening                                                                                                                                                                                                     | mm | 0          |
| Degree of protection (IP)                                                                                                                                                                                          |    | IP67/IP69K |
| Degree of protection (NEMA)                                                                                                                                                                                        |    | 4X, 13     |
| Type of button                                                                                                                                                                                                     |    | Flat       |
| Suitable for illumination                                                                                                                                                                                          |    | No         |
| With lighting                                                                                                                                                                                                      |    | No         |
| Supply voltage lamp                                                                                                                                                                                                | V  | 0          |
| Switching function latching                                                                                                                                                                                        |    | Yes        |
| Spring-return                                                                                                                                                                                                      |    | No         |
| With front ring                                                                                                                                                                                                    |    | Yes        |
| Material front ring                                                                                                                                                                                                |    | Plastic    |
| Colour front ring                                                                                                                                                                                                  |    | Chrome     |
| Suitable for emergency stop                                                                                                                                                                                        |    | No         |
| Unlocking method                                                                                                                                                                                                   |    | None       |