

Pushbutton, RMQ-Titan, Flat, momentary, black, Blank, Bezel: titanium



Part no. M22-D-S  
 Catalog No. 216590  
 Alternate Catalog No. M22-D-SQ  
 EL-Nummer 4355306  
 (Norway)

### Delivery program

|                            |   |    |                                 |
|----------------------------|---|----|---------------------------------|
| Product range              |   |    | RMQ-Titan                       |
| Basic function             |   |    | Pushbutton actuators            |
| Mounting hole diameter     | ∅ | mm | 22.5                            |
| Single unit/Complete unit  |   |    | Single unit                     |
| Design                     |   |    | Flat<br>momentary               |
| <b>Button plate</b>        |   |    |                                 |
| button plate               |   |    | black<br>Blank                  |
| Degree of Protection       |   |    | IP66, IP67, IP69                |
| Front ring                 |   |    | Bezel: titanium                 |
| Connection to SmartWire-DT |   |    | yes<br>with SWD-RMQ connections |

### Technical data

#### General

|                                           |              |                   |                                                                                |
|-------------------------------------------|--------------|-------------------|--------------------------------------------------------------------------------|
| Standards                                 |              |                   | IEC/EN 60947<br>VDE 0660                                                       |
| Lifespan, mechanical                      | Operations   | x 10 <sup>6</sup> | > 5                                                                            |
| Operating frequency                       | Operations/h |                   | ≤ 3600                                                                         |
| 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                                                                |
| Indoor and protected outdoor installation |              |                   |                                                                                |

### 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 push button (EC000221)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for push-button actuators (ecl@ss10.0.1-27-37-12-10 [AKF028014])

|                                         |    |            |
|-----------------------------------------|----|------------|
| Colour button                           |    | Black      |
| Number of command positions             |    | 1          |
| Construction type lens                  |    | Round      |
| Hole diameter                           | mm | 22.5       |
| Width opening                           | mm | 0          |
| Height opening                          | mm | 0          |
| Type of button                          |    | Flat       |
| Suitable for illumination               |    | No         |
| With protective cover                   |    | No         |
| Labelled                                |    | No         |
| Switching function latching             |    | No         |
| Spring-return                           |    | Yes        |
| With front ring                         |    | Yes        |
| Material front ring                     |    | Plastic    |
| Colour front ring                       |    | Chrome     |
| Degree of protection (IP), front side   |    | IP67/IP69K |
| Degree of protection (NEMA), front side |    | 4X         |