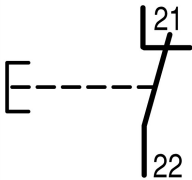




Pushbutton, RMQ-Titan, Flat, momentary, 1 NC, red, inscribed, Bezel: titanium

Part no. **M22-D-R-X0/K01**  
Catalog No. **216510**  
Alternate Catalog No. **M22-D-R-X0-K01Q**  
EL-Nummer (Norway) **4355283**

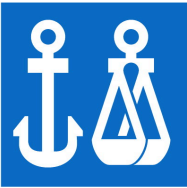
## Delivery program

|                                                                             |    |    |                                                                                                                                                |
|-----------------------------------------------------------------------------|----|----|------------------------------------------------------------------------------------------------------------------------------------------------|
| Product range                                                               |    |    | RMQ-Titan                                                                                                                                      |
| Basic function                                                              |    |    | Pushbutton actuators                                                                                                                           |
| Mounting hole diameter                                                      | Ø  | mm | 22.5                                                                                                                                           |
| Single unit/Complete unit                                                   |    |    | Complete unit                                                                                                                                  |
| Design                                                                      |    |    | Flat                                                                                                                                           |
|                                                                             |    |    | momentary                                                                                                                                      |
| Connection type                                                             |    |    | Screw connection                                                                                                                               |
| <b>Button plate</b>                                                         |    |    |                                                                                                                                                |
| button plate                                                                |    |    | red                                                                                                                                            |
| Button plate                                                                |    |    |                                                              |
|                                                                             |    |    | inscribed                                                                                                                                      |
| Degree of Protection                                                        |    |    | IP66, IP67, IP69                                                                                                                               |
| Front ring                                                                  |    |    | Bezel: titanium                                                                                                                                |
| Connection to SmartWire-DT                                                  |    |    | no                                                                                                                                             |
| <b>Contacts</b>                                                             |    |    |                                                                                                                                                |
| N/C = Normally closed                                                       |    |    | 1 NC                                                        |
| Notes                                                                       |    |    |  = safety function, by positive opening to IEC/EN 60947-5-1 |
| <b>Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1</b> |    |    |                                                                                                                                                |
|                                                                             | mm |    | 4.8                                                                                                                                            |
| Maximum travel                                                              | mm |    | 5.7                                                                                                                                            |
| Minimum force for positive opening                                          | N  |    | 15                                                                                                                                             |
| Contact sequence                                                            |    |    |                                                            |
| Positive opening (ZW)                                                       |    |    | yes                                                                                                                                            |

## 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                                                                                                                                                                                                                                                  |
| 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                                                                                                                                                                                                                                            |
|                             |  |    |    |

## Contacts

|                                         |       |    |   |
|-----------------------------------------|-------|----|---|
| Rated conditional short-circuit current | $I_q$ | kA | 1 |
|-----------------------------------------|-------|----|---|

## Design verification as per IEC/EN 61439

|                                                                                                                        |            |    |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|------------|----|----------------------------------------------------------------------------------------------------------------------------------|
| Technical data for design verification                                                                                 |            |    |                                                                                                                                  |
| Rated operational current for specified heat dissipation                                                               | $I_n$      | A  | 6                                                                                                                                |
| Heat dissipation per pole, current-dependent                                                                           | $P_{vid}$  | W  | 0.11                                                                                                                             |
| Equipment heat dissipation, current-dependent                                                                          | $P_{vid}$  | W  | 0                                                                                                                                |
| Static heat dissipation, non-current-dependent                                                                         | $P_{vs}$   | W  | 0                                                                                                                                |
| Heat dissipation capacity                                                                                              | $P_{diss}$ | 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                                                                                                 |            |    | 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) / Push button, complete (EC001028)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Push-button actuator, complete unit (ecl@ss10.0.1-27-37-12-28 [AKF046014])

|                                               |  |    |                  |
|-----------------------------------------------|--|----|------------------|
| Number of command positions                   |  |    | 1                |
| Type of button                                |  |    | Flat             |
| Colour button                                 |  |    | Red              |
| Construction type lens                        |  |    | Round            |
| Hole diameter                                 |  | mm | 22.5             |
| Width opening                                 |  | mm | 0                |
| Height opening                                |  | mm | 0                |
| Suitable for illumination                     |  |    | No               |
| Switching function latching                   |  |    | No               |
| Spring-return                                 |  |    | Yes              |
| Supply voltage lamp                           |  | V  | 0                |
| Number of contacts as normally open contact   |  |    | 0                |
| Number of contacts as normally closed contact |  |    | 1                |
| Number of contacts as change-over contact     |  |    | 0                |
| Type of electric connection                   |  |    | Screw connection |
| With front ring                               |  |    | Yes              |
| Material front ring                           |  |    | Plastic          |
| Colour front ring                             |  |    | Chrome           |
| Degree of protection (IP)                     |  |    | IP67/IP69K       |
| Degree of protection (NEMA)                   |  |    | 4X               |

## Approvals

|                             |  |  |                                                                              |
|-----------------------------|--|--|------------------------------------------------------------------------------|
| Product Standards           |  |  | IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking |
| UL File No.                 |  |  | E29184                                                                       |
| UL Category Control No.     |  |  | NKCR                                                                         |
| CSA File No.                |  |  | 012528                                                                       |
| CSA Class No.               |  |  | 3211-03                                                                      |
| North America Certification |  |  | UL listed, CSA certified                                                     |
| Degree of Protection        |  |  | UL/CSA Type 3R, 4X, 12, 13                                                   |