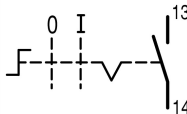




Changeover switch, RMQ-Titan, With thumb-grip, maintained, 2 positions, 1 N/O, Bezel: titanium

Part no. **M22-WRK/K10**  
Catalog No. **216518**  
Alternate Catalog No. **M22-WRK-K10Q**  
EL-Nummer (Norway) **4355291**

## Delivery program

|                            |   |    |                                                                                                                                                                                   |
|----------------------------|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product range              |   |    | RMQ-Titan                                                                                                                                                                         |
| Basic function             |   |    | Selector switch actuators                                                                                                                                                         |
| Mounting hole diameter     | Ø | mm | 22.5                                                                                                                                                                              |
| Single unit/Complete unit  |   |    | Complete unit                                                                                                                                                                     |
| Design                     |   |    | With thumb-grip                                                                                                                                                                   |
|                            |   |    | maintained                                                                                                                                                                        |
| <b>Function:</b>           |   |    |                                                                                                                                                                                   |
|                            |   |    |  60°                                                                                             |
| Connection type            |   |    | Screw connection                                                                                                                                                                  |
|                            |   |    | 2 positions                                                                                                                                                                       |
| Degree of Protection       |   |    | IP66                                                                                                                                                                              |
| Front ring                 |   |    | Bezel: titanium                                                                                                                                                                   |
| Connection to SmartWire-DT |   |    | no                                                                                                                                                                                |
| <b>Contacts</b>            |   |    |                                                                                                                                                                                   |
| N/O = Normally open        |   |    | 1 N/O                                                                                                                                                                             |
| Contact sequence           |   |    |                                                                                               |
| <b>Instructions</b>        |   |    |                                                                                                                                                                                   |
|                            |   |    | Stay-put/spring-return function, can be changed with coding parts M22-XC-Y<br>Contactor states 0, I and II correspond with the position of the actuator as viewed from the front. |

## Technical data

|                                    |              |               |                                                                                |
|------------------------------------|--------------|---------------|--------------------------------------------------------------------------------|
| <b>General</b>                     |              |               |                                                                                |
| Standards                          |              |               | IEC/EN 60947<br>VDE 0660                                                       |
| Lifespan, mechanical               | Operations   | $\times 10^6$ | > 0.1                                                                          |
| Operating frequency                | Operations/h |               | ≤ 2000                                                                         |
| Operating torque (screw terminals) |              | Nm            | ≤ 0.3                                                                          |
| Climatic proofing                  |              |               | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Degree of Protection               |              |               | IP66                                                                           |
| 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                                                                |



## 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) / Selector switch, complete (EC001029)                                                                                                              |  |  |        |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Selector switch, complete unit (ecl@ss10.0.1-27-37-12-43 [ACN984011]) |  |  |        |
| Number of switch positions                                                                                                                                                                       |  |  | 2      |
| Type of control element                                                                                                                                                                          |  |  | Toggle |
| Suitable for illumination                                                                                                                                                                        |  |  | No     |
| With light source                                                                                                                                                                                |  |  | No     |
| Colour button                                                                                                                                                                                    |  |  | Black  |

|                                               |    |                  |
|-----------------------------------------------|----|------------------|
| Hole diameter                                 | mm | 22.5             |
| Width opening                                 | mm | 0                |
| Height opening                                | mm | 0                |
| Switching function latching                   |    | Yes              |
| Spring-return                                 |    | No               |
| Degree of protection (IP)                     |    | IP66             |
| Degree of protection (NEMA)                   |    | 4X               |
| Supply voltage                                | V  | 0 - 0            |
| Number of contacts as normally open contact   |    | 1                |
| Number of contacts as normally closed contact |    | 0                |
| 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           |

## 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                                                   |

