

**Emergency stop/emergency switching off pushbutton, RMQ-Titan,  
Mushroom-shaped, 38 mm, Illuminated with LED element, Turn-to-release  
function, Red, yellow, RAL 3000**

**Part no.** M22-PVLT  
**Catalog No.** 263469  
**Alternate Catalog No.** M22-PVLTQ  
**EL-Nummer (Norway)** 4355763

## Delivery program

|                            |   |    |  |
|----------------------------|---|----|--|
| Product range              |   |    | RMQ-Titan  |
| Basic function             |   |    | Controlled stop pushbuttons/emergency-stop buttons   |
| Mounting hole diameter     | Ø | mm | 22.5   |
| Single unit/Complete unit  |   |    | Single unit  |
| Design                     |   |    | Mushroom-shaped  |
| Diameter                   | Ø | mm | 38   |
| Illumination               |   |    | Illuminated with LED element   |
|                            |   |    | Turn-to-release function   |
| Description                |   |    | Tamper-proof according to ISO 13850/EN 418   |
| <b>Colour</b>              |   |    |  |
| Mushroom head              |   |    | Red  |
| Base                       |   |    | yellow   |
| RAL Value                  |   |    | RAL 3000   |
| Degree of Protection       |   |    | IP66, IP67, IP69   |
| Connection to SmartWire-DT |   |    | no   |
| <b>Instructions</b>        |   |    | Max. Configuration: 4 x M22-(C)K01, ...10 or 2 x M22-(C)K02, ...20, ...11 and 1 x M22-(F)LED...<br>When using M22-PVL... with 1 x M22-K01SMC10 (single channel), article M22-XSMC (order no.: 173030) is required. Order this item separately. |

## Technical data

|                             |              |               |  |
|-----------------------------|--------------|---------------|--|
| <b>General</b>              |              |               |  |
| Standards                   |              |               | IEC/EN 60947<br>VDE 0660   |
| Lifespan, mechanical        | Operations   | $\times 10^6$ | > 0.1  |
| Operating frequency         | Operations/h |               | $\leq 600$   |
| Actuating force             | n            |               | $\leq 50$  |
| 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         |              | °C            | -25 - +70  |
| Open                        |              |               |  |
| Mounting position           |              |               | As required  |
| Mechanical shock resistance | g            |               | 50<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 | 0 |
| Heat dissipation per pole, current-dependent             | $P_{vid}$ | W | 0 |
| Equipment heat dissipation, current-dependent            | $P_{vid}$ | W | 0 |
| Static heat dissipation, non-current-dependent           | $P_{vs}$  | 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 (ecl@ss10.0.1-27-37-12-12 [AKF030014])

|                             |    |              |
|-----------------------------|----|--------------|
| Colour button               |    | Red          |
| Construction type lens      |    | Round        |
| Diameter cap                | mm | 38           |
| Hole diameter               | mm | 22.5         |
| Width opening               | mm | 0            |
| Height opening              | mm | 0            |
| Degree of protection (IP)   |    | IP67/IP6K    |
| Degree of protection (NEMA) |    | 4X, 13       |
| Type of button              |    | High         |
| Suitable for illumination   |    | Yes          |
| With lighting               |    | No           |
| Supply voltage lamp         | V  | 0            |
| Switching function latching |    | Yes          |
| Spring-return               |    | No           |
| With front ring             |    | No           |
| Material front ring         |    | Other        |
| Colour front ring           |    | Other        |
| Suitable for emergency stop |    | Yes          |
| Unlocking method            |    | Turn-release |