

Mushroom actuator, RMQ-Titan, Mushroom, momentary, Mushroom black, black, Blank, Bezel: titanium



Part no. M22-DP-S
Catalog No. 216712
Alternate Catalog No. M22-DP-SQ
EL-Nummer 4355312
(Norway)

Delivery program

| | | | |
|----------------------------|---|----|---------------------------------|
| Product range | | | RMQ-Titan |
| Basic function | | | Mushroom-headed pushbutton |
| Mounting hole diameter | ∅ | mm | 22.5 |
| Single unit/Complete unit | | | Single unit |
| Design | | | Mushroom momentary |
| Colour | | | |
| Mushroom | | | black |
| Button plate | | | |
| button plate | | | black Blank |
| Degree of Protection | | | IP66, IP67, IP69 |
| Front ring | | | Bezel: titanium |
| Connection to SmartWire-DT | | | yes with SWD-RMQ connections |
| Function | | | momentary |

Technical data

| | | | |
|-----------------------------|--------------|-------------------|--|
| General | | | |
| Standards | | | IEC/EN 60947 VDE 0660 |
| Lifespan, mechanical | Operations | x 10 ⁶ | > 5 |
| Operating frequency | Operations/h | | ≤ 3600 |
| Actuating force | | n | ≤ 5 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 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 Shock duration 11 ms Sinusoidal according to IEC 60068-2-27 |
| shipping classification | | | DNV GL 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 _{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 | | 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 | | Black |
| 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 | | No |
| Spring-return | | Yes |
| With front ring | | Yes |
| Material front ring | | Plastic |
| Colour front ring | | Chrome |
| Suitable for emergency stop | | No |
| Unlocking method | | None |