# DATASHEET - M22-PV30

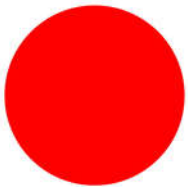


**Emergency stop/emergency switching off pushbutton, RMQ-Titan, Mushroom-shaped, 30 mm, Non-illuminated, Pull-to-release function, Red, yellow**

Powering Business Worldwide

**Part no.** M22-PV30
**Catalog No.** 197535

## Delivery program

| | | | |
|---|---|---|---|
| Product range | | | RMQ-Titan |
| Basic function | | | Controlled stop pushbuttons/emergency-stop buttons |
| Single unit/Complete unit | | | Single unit |
| Design | | | Mushroom-shaped |
| Diameter | ∅ | mm | 30 |
| Illumination | | | Non-illuminated |
| | | | Pull-to-release function |
| Description | | | Tamper-proof according to ISO 13850/EN 418 |
| **Colour** | | | |
| Mushroom head | | | Red |
| | | |  |
| Base | | | yellow |
| Degree of Protection | | | IP65, IP66, IP69 |
| Connection to SmartWire-DT | | | no |
| **Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1** | | | |
| Minimum force for positive opening | N | | 0 |
| Front dimensions | | | 35 |
| **Instructions** | | | Max. number of contacts: four M22-(C)K01, …10 or two M22-(C)K02, …20, …11 |

## Technical data

### General

| | | | |
|---|---|---|---|
| Standards | | | EN 50581:2012<br>EN 60947-5-1:2017<br>EN 60947-5-5:1997 + A1:2005 + A11:2013 + A2:2017<br>EN ISO 13850:2015<br>2006/42/EC Maschinenrichtlinie / machinery directive |
| certificate | | | CE, EAC UL, CSA, CCC |
| Lifespan, mechanical | Operations | | 70000 |
| Operating frequency | Operations/h | | ≦ 600 |
| Actuating force | | n | ≦ 50 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Degree of Protection | | | IP65, IP66, IP69 |
| Ambient temperature | | | |
| Open | | °C | -25 - +70 |
| Mounting position | | | As required |
| Mechanical shock resistance | | g | 50<br>Shock duration 11 ms<br>Sinusoidal<br>according to IEC 60068-2-27 |

## 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. |

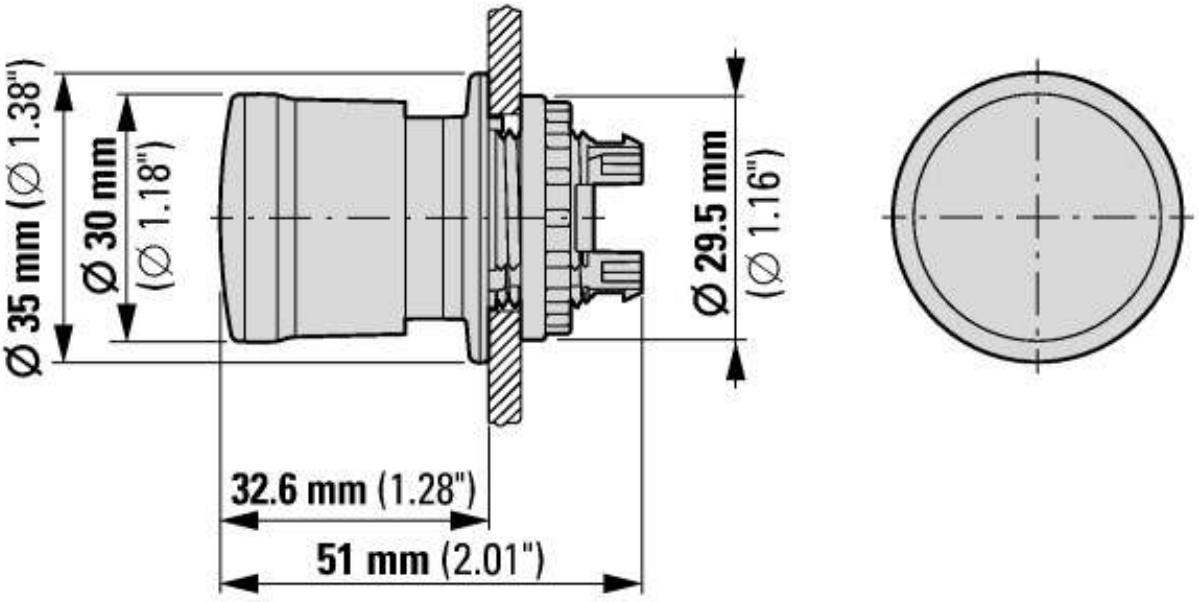
## Technical data ETIM 7.0

| | | | |
|---|---|---|---|
| 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 | 30 |
| Hole diameter | | mm | 22.5 |
| Width opening | | mm | 0 |
| Height opening | | mm | 0 |
| Degree of protection (IP) | | | Other |
| Degree of protection (NEMA) | | | 4X |
| Type of button | | | High |
| Suitable for illumination | | | No |
| 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 | | | Pull-release |

## Approvals

| | | | |
|---|---|---|---|
| North America Certification | | | Request filed for UL, CSA certified |

## Dimensions




## Additional product information (links)

| **IL04716002Z RMQ-Titan system** | |
|---|---|
| IL04716002Z RMQ-Titan system | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716002Z2018_10.pdf |
| DGUV Test Mark Customer Information | http://www.dguv.de/medien/dguv-test-medien/_pdf_zip_doc_ppt/agb-und-pzo/dguv_test_zeichen_infoblatt_kunden.pdf |


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