DATASHEET - M22-PV



Emergency stop/emergency switching off pushbutton, RMQ-Titan, Mushroom-shaped, 38 mm, Non-illuminated, Pull-to-release function, Red, yellow, RAL 3000



| Part no. | M22-PV |
|-------------------|---------|
| Catalog No. | 216876 |
| Alternate Catalog | M22-PVQ |
| No. | |
| EL-Nummer | 4355321 |
| (Norway) | |

Delivery program

| Basi función of linear of | | | | |
|---|----------------------------|---|----|---|
| Mounting hole diameterØmm2.5Single unit/Complete unitSingle unitSingle unitDameterØmm8IlluninationØMmNon-HuluninatedDescriptionMMarcer of according to ISO 13850/EN 418Oul-to-release functionMushroom headMMRedBaseRAL ValueMushroom fandedVNon-Muse of according to ISO 13850/EN 418Degree of ProtectionMushroom fandedNon-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of ProtectionMushroom fandedNon-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of ProtectionMuse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of ProtectionMuse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of ProtectionMuse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of ProtectionMuse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of ProtectionMuse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of ProtectionMuse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of | Product range | | | RMQ-Titan |
| Base Rel Single unit Base RAL Yalue Second Base Rel Second RAL Yalue Second Second Base Rel Second Rat Yalue Second Second Base Second Second Rat Yalue Second Second Base Second Second Rat Yalue Second Second Description Second Second Second Second Second | Basic function | | | Controlled stop pushbuttons/emergency-stop buttons |
| Design Mushroom-shaped Diameter Mushroom-shaped Illumination Sa Description Foreit and set of the set of | Mounting hole diameter | Ø | mm | 22.5 |
| Diameter Mm 38 Illumination Non-illuminated Description FMM Pull-to-release function Colour Tamper-proof according to ISO 13850/EN 418 Red Mushroom head Red FMM Base FML Pale FMM RAL Value FMM Relour Degree of Protection FMM FMM Contertion to SmartWire-DT FMM FMM | Single unit/Complete unit | | | Single unit |
| Illumination Non-illuminated Description Full-to-release function Colour Tamper-proof according to ISO 13850/EN 418 Mushroon head Fed See Rel Base yellow RAL Value Felow Degree of Protection Yellow Concetion to SmartWire-DT Yellow | Design | | | Mushroom-shaped |
| Description Full-to-release function Colour Tamper-proof according to ISO 13850/EN 418 Mushroom head Mushroom head Base Vull-to-release function Rat Vull-to-release function Rat Vull-to-release function Red Vull-to-release function Red Vull-to-release function Rat Vull-to-release function Red Vull-to-release f | Diameter | Ø | mm | 38 |
| Description Tamper-proof according to ISO 13850/EN 418 Colour Red Mushroom head Red Search yellow Base yellow RAL Value RAL Salue RAL 3000 Degree of Protection Fees (Protection Comment) Pees (Protection Comment) Connection to SmartWire-DT Connection to SmartWire DT Fees (Protection Comment) | Illumination | | | Non-illuminated |
| Colour Image: Colour Image: Colour Red Mushroom head Red Image: Colour | | | | Pull-to-release function |
| Mushroom head Red Mushroom head Image: Section 1 Section 2 Image: Section 2 Base Section 2 RAL Value Image: Section 2 Degree of Protection Image: Section 2 Connection to SmartWire-DT Image: Section 2 | Description | | | Tamper-proof according to ISO 13850/EN 418 |
| Base Felow Felow Felow RAL Value Felow RAL 3000 Felow Degree of Protection Felow Felow Felow Connection to SmartWire-DT Felow Felow Felow | Colour | | | |
| RAL Value RAL 3000 Degree of Protection IMA Connection to SmartWire-DT IMA | Mushroom head | | | Red |
| RAL Value RAL 3000 Degree of Protection IMA Connection to SmartWire-DT IMA | | | | |
| Degree of Protection IP66, IP69 Connection to SmartWire-DT IP66 | Base | | | yellow |
| Connection to SmartWire-DT no | RAL Value | | | RAL 3000 |
| | Degree of Protection | | | IP66, IP69 |
| Instructions Max. number of contacts: four M22-(C)K01,10 or two M22-(C)K02,20,11 | Connection to SmartWire-DT | | | no |
| | Instructions | | | Max. number of contacts: four M22-(C)K01,10 or two M22-(C)K02,20,11 |

Technical data

| General | | | |
|-----------------------------|--------------|-------------------|--|
| Standards | | | IEC/EN 60947 VDE 0660 |
| Lifespan, mechanical | Operations | x 10 ⁶ | > 0.1 |
| Operating frequency | Operations/h | | ≦ 600 |
| Actuating force | | n | ≦ 50 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Degree of Protection | | | IP66, IP69 |
| Ambient temperature | | | |
| Open | | °C | -25 - +70 |
| Mounting position | | | As required |
| Mechanical shock resistance | | g | 50 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 | А | 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 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])

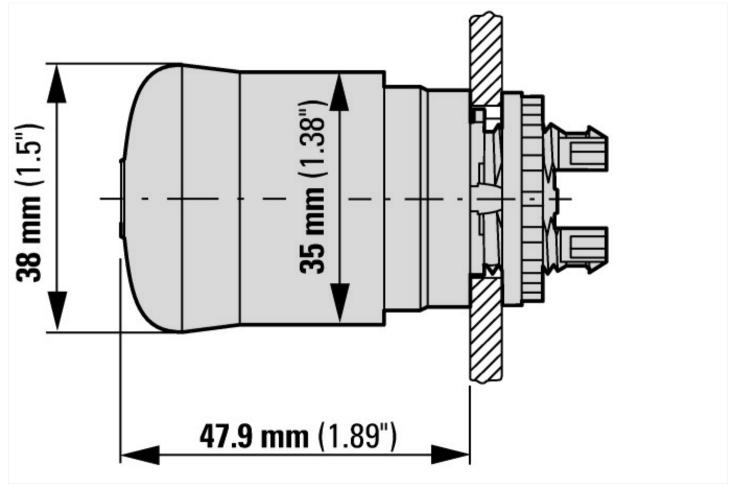
| Colour button | | Red |
|------------------------|----|-------|
| Construction type lens | | Round |
| Diameter cap | mm | 38 |
| Hole diameter | mm | 22.5 |
| Width opening | mm | 0 |
| Height opening | mm | 0 |

| Degree of protection (IP) | IP66 |
|-----------------------------|--------------|
| Degree of protection (NEMA) | 4X |
| Type of button | Flat |
| 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

| 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 |

Dimensions



Additional product information (links)

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