DATASHEET - M22-PV/KC11/IY



Housing, Controlled stop pushbuttons/emergency-stop buttons, Mushroom-shaped, 38 mm, Non-illuminated, Pull-to-release function, 1 NC, 1 N/O, Screw connection, Red, Yellow



Part no. M22-PV/KC11/IY

Catalog No. 216525

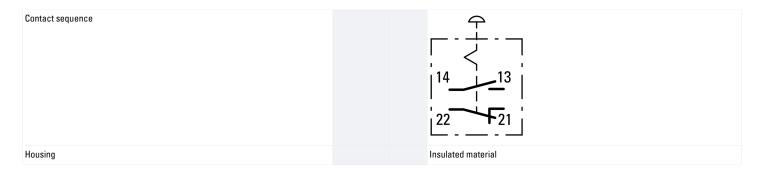
Alternate Catalog M22-PV-KC11-IYQ

No.

EL-Nummer 4355298

(Norway)

| (Norway) | | | |
|--|----|------|---|
| Delivery program | | | |
| Productrange | | | RMQ-Titan |
| Basic function | | | Housing Controlled stop pushbuttons/emergency-stop buttons |
| Mounting hole diameter | Ø | mm | 22.5 |
| Single unit/Complete unit | | | Complete unit |
| Design | | | Mushroom-shaped |
| Diameter | Ø | mm | 38 |
| Illumination | | | Non-illuminated |
| Approval | | | Sicherheit geprüft tested safety Totally insulated |
| | | | Pull-to-release function |
| Connection type | | | Screw connection |
| Description | | | Tamper-proof according to ISO 13850/EN 418 |
| Number of locations | | Qty. | 1 |
| Colour | | | |
| Mushroom head | | | Red |
| | | | |
| Enclosure covers | | | Yellow |
| Degree of Protection | | | IP66, IP69 |
| Connection to SmartWire-DT | | | no |
| Contacts | | | |
| N/C = Normally closed | | | 1 NC → |
| N/O = Normally open | | | 1 N/O |
| Notes | | | e safety function, by positive opening to IEC/EN 60947-5-1 |
| Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1 | | | 40 |
| Maximum traval | mm | | 4.8 |
| Maximum travel | mm | | 5.7 |
| Minimum force for positive opening | N | | 20 |



Technical data General

| VDE 0060 | | | | |
|--|-----------------------------|--------------|-------------------|------------------------------------|
| Operations frequency Actuating force Climatic proofing Degree of Protection Ambient temperature Open Mounting position Mechanical shock resistance Shipping classification Operations in the state of t | Standards | | | |
| Actuating force Climatic proofing Dagree of Protection Ambient temperature Open Mounting position Mechanical shock resistance Shipping classification Ambient temperature Open Mounting position Mechanical shock resistance Type Germanischer Lloyd Type Approved | Lifespan, mechanical | Operations | x 10 ⁶ | > 0.1 |
| Climatic proofing Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 P66, IP69 PC -25 - +70 Mounting position Mechanical shock resistance Mechanical shock resistance Shock duration 11 ms Shock duration 11 ms Shock duration 11 ms Shock duration 11 ms Climatic proofing DNV GL LR CR CR CR CR CR CR CR CR CR | Operating frequency | Operations/h | | ≦ 600 |
| Degree of Protection Ambient temperature Open **C*** 25 - +70 Mounting position Mechanical shock resistance Shock duration 11 ms S | Actuating force | | n | ≦ 50 |
| Ambient temperature Open C -25 + 70 As required Mounting position Mechanical shock resistance G SO Shock duration 11 ms Sinusoidal according to IEC 60068-2-27 shipping classification ONV GL LR C PROVED | Climatic proofing | | | |
| Open °C -25 - +70 Mounting position As required Mechanical shock resistance 9 50 Shock duration 11 ms Sinusoidal according to IEC 60068-2-27 shipping classification DNV GL LR Type Approved | Degree of Protection | | | IP66, IP69 |
| Mounting position Mechanical shock resistance g 50 Shock duration 11 ms Sinusoidal according to IEC 60068-2-27 Shipping classification DNV GL LR LR TYPE APPROVED | Ambient temperature | | | |
| Mechanical shock resistance g 50 Shock duration 11 ms Sinusoidal according to IEC 60068-2-27 shipping classification DNV GL R Register TYPE APPROVED | Open | | °C | -25 - +70 |
| Shock duration 11 ms Sinusoidal according to IEC 60068-2-27 shipping classification DNV GL LR LR TYPE APPROVED | Mounting position | | | As required |
| GL R Control of the | Mechanical shock resistance | | g | Shock duration 11 ms Sinusoidal |
| Germanischer Lloyd APPROVED | shipping classification | | | GL |
| Contacts | | | | APPROVED. |
| | Contacts | | | |

Design verification as per IEC/EN 61439

Rated conditional short-circuit current

| Rated operational current for specified heat dissipation In A 6 Heat dissipation per pole, current-dependent Pvid W 0.11 Equipment heat dissipation, current-dependent Pvid W 0 Static heat dissipation, non-current-dependent Pvs W 0 Heat dissipation capacity Pdiss W 0 Operating ambient temperature min. C -25 Operating ambient temperature max. | 200:g.: 101:11000000 do por 120, 211 01 100 | | | |
|---|--|-------------------|----|--|
| Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Pvid V 0.11 Static heat dissipation, non-current-dependent Pvs V 0 Heat dissipation capacity Operating ambient temperature min. Operating ambient temperature max. Operating ambient temperature max. *C 70 *C 70 *C 70 *C 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation Pvid W 0.11 Operating ambient temperature max. *C 70 *C 70 Meets the product standard's requirements. Please enquire Please enquire | Technical data for design verification | | | |
| Equipment heat dissipation, current-dependent Poid V Operating ambient temperature min. Operating ambient temperature max. Operating ambient temperature max. Operating ambient temperature max. CC Operating ambient temperature max. Operating ambient temperature max. Operating ambient temperature max. CC 70 Inc. Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation Pevid W O O O O O O O O O O O O O | Rated operational current for specified heat dissipation | In | Α | 6 |
| Static heat dissipation, non-current-dependent Poss W 0 Operating ambient temperature min. Operating ambient temperature max. Operating ambient temperature max. Operating ambient temperature max. *C 70 IDEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation Poss W 0 Operating ambient temperature min. *C 70 To 70 Meets the product standard's requirements. Please enquire Please enquire | Heat dissipation per pole, current-dependent | P _{vid} | W | 0.11 |
| Heat dissipation capacity Pdiss W 0 Operating ambient temperature min. C C 70 IEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation Pdiss W 0 0 Absolute W 0 Absolute Weets the product standard's requirements. Meets the product standard's requirements. | Equipment heat dissipation, current-dependent | P _{vid} | W | 0 |
| Operating ambient temperature min. Operating ambient temperature max. Operating ambient temperature max. OPEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation Operating ambient temperature min. °C -25 Neets the product standard's requirements. Meets the product standard's requirements. Please enquire | Static heat dissipation, non-current-dependent | P_{vs} | W | 0 |
| Operating ambient temperature max. 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation o C 70 Meets the product standard's requirements. Please enquire | Heat dissipation capacity | P _{diss} | W | 0 |
| 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. Please enquire | Operating ambient temperature min. | | °C | -25 |
| 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 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. Meets the product standard's requirements. Please enquire | Operating ambient temperature max. | | °C | 70 |
| 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. Please enquire | IEC/EN 61439 design verification | | | |
| 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. Please enquire | 10.2 Strength of materials and parts | | | |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. Please enquire | 10.2.2 Corrosion resistance | | | 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 10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. | 10.2.3.1 Verification of thermal stability of enclosures | | | Meets the product standard's requirements. |
| and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation Please enquire | 10.2.3.2 Verification of resistance of insulating materials to normal heat | | | Meets the product standard's requirements. |
| | · · | | | Meets the product standard's requirements. |
| 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. | 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. |

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| 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) / Control circuit devices combination in enclosure (EC000225)

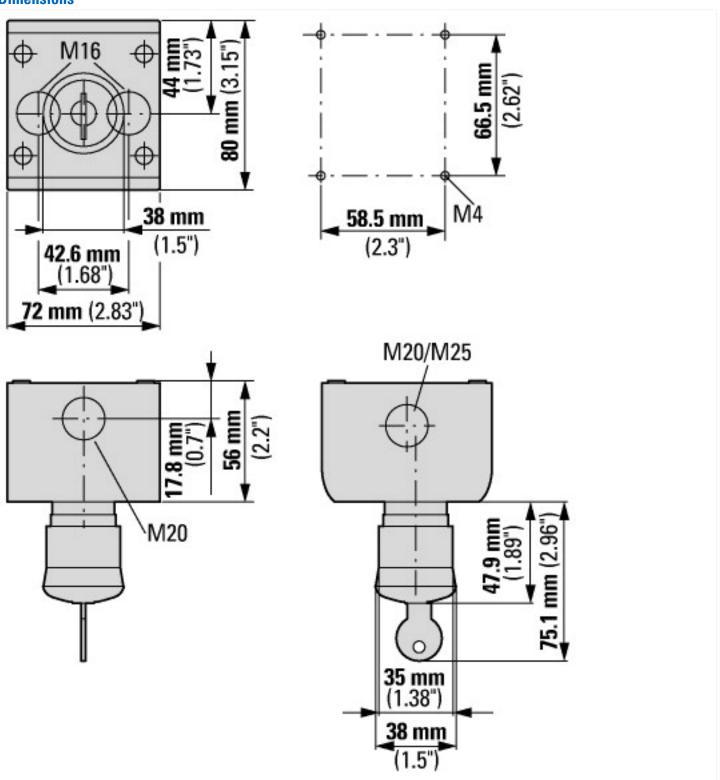
Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Command and alarm device combination in housing (ecl@ss10.0.1-27-37-12-16 [AKF034014])

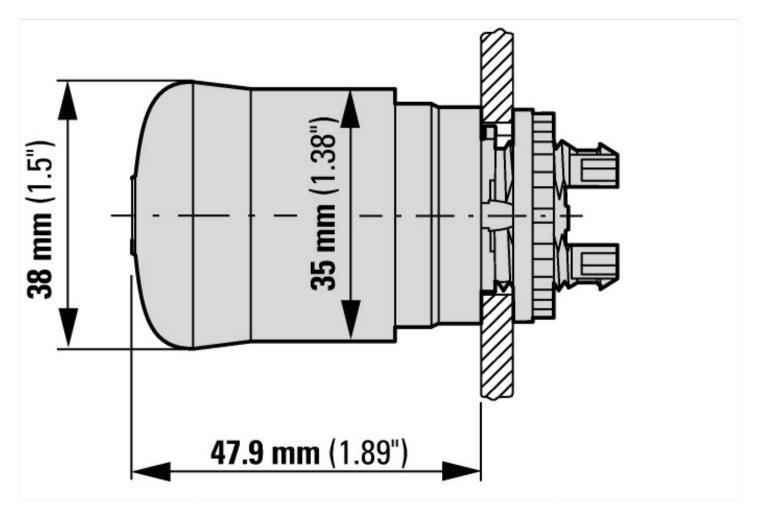
| (eci@ss10.0.1-2/-3/-12-16 [AKF034014]) | | |
|---|---|-----------|
| Number of command positions | | 1 |
| Number of push buttons | | 1 |
| Number of indicator lights | | 0 |
| Number of key switches | | 0 |
| Number of selector switches | | 0 |
| Number of mushroom-shaped push-buttons | | 0 |
| Suitable for emergency stop | | Yes |
| Rated control supply voltage Us at AC 50HZ | V | 115 - 500 |
| Rated control supply voltage Us at AC 60HZ | V | 115 - 500 |
| Rated control supply voltage Us at DC | V | 24 - 220 |
| Colour housing cover | | Yellow |
| Material housing | | Plastic |
| Number of contacts as normally open contact | | 1 |
| Number of contacts as normally closed contact | | 1 |
| Number of contacts as change-over contact | | 0 |
| Degree of protection (IP) | | IP66 |
| Degree of protection (NEMA) | | 4X |

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

 $http://www.dguv.de/medien/dguv-test-medien/_pdf_zip_doc_ppt/agb-und-pzo/dguv_test_zeichen_infoblatt_kunden.pdf$