# Specifications

## Eaton 216514

Eaton M22 Emergency stop key-release button, Mushroom-shaped, Classical, key-release, 38 mm, 1 N/C

| General specifications | |
|---|---|
| **PRODUCT NAME** | Eaton Moeller® series M22 emergency stop key-release button |
| **CATALOG NUMBER** | 216514 |
| **MODEL CODE** | M22-PVS/K01 |
| **EAN** | 4015082165147 |
| **PRODUCT LENGTH/DEPTH** | 115 mm |
| **PRODUCT HEIGHT** | 38 mm |
| **PRODUCT WIDTH** | 38 mm |
| **PRODUCT WEIGHT** | 0.073 kg |
| **CERTIFICATIONS** | CE<br>CSA File No.: 012528<br>IEC/EN 60947-5<br>UL File No.: E29184<br>CSA<br>CSA Class No.: 3211-03<br>UL<br>UL 508<br>VDE 0660<br>CSA-C22.2 No. 14-05<br>CSA-C22.2 No. 94-91<br>IEC/EN 60947<br>UL Category Control No.: NKCR<br>DNV |
| **CATALOG NOTES** | Max. number of contacts: four M22-(C)K01, …10 or two M22-(C)K02, …20, …11 |
| **GLOBAL CATALOG** | 216514 |
| **PRODUCT TYPE** | Emergency stop key-release button |

## Product specifications

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| **TYPE** | Controlled stop pushbutton/emergency-stop button |
| **ACCESSORIES** | 1 key included with supplied equipment. |
| **ACTUATOR COLOR** | Red |
| **FEATURES** | Tamper-proof (according to ISO 13850, EN 418) |
| **ACTUATOR FUNCTION** | Key-release |
| **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. |
| **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 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. 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** | Does not apply, since the entire switchgear needs to be |

## Resources

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| **CATALOGS** | eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf |
| **DECLARATIONS OF CONFORMITY** | eaton-emergency-stop-emergency-switching-off-pushbutton-declaration-of-conformity-eu251534en.pdf<br><br>eaton-emergency-stop-emergency-switching-off-pushbutton-declaration-of-conformity-uk251132en.pdf |
| **DRAWINGS** | eaton-operating-emergency-m22-dimensions-002.eps<br><br>eaton-operating-actuation-m22-dimensions.eps<br><br>eaton-operating-button-symbol.eps<br><br>eaton-general-m22-symbol.eps<br><br>eaton-general-m22-standards.eps<br><br>eaton-general-approval-m22-symbol.eps<br><br>eaton-operating-m22-symbol.eps |
| **ECAD MODEL** | ETN.M22-PVS_K01 |
| **INSTALLATION INSTRUCTIONS** | IL04716002Z<br><br>IL04716005Z.pdf |
| **MCAD MODEL** | bg_pvs_001 |
| **PEP ECO-PASSPORT** | eaton-pushbuttons-pep-eato-00304-v0101-en.pdf |
| **SPECIFICATIONS AND DATASHEETS** | Eaton Specification Sheet - 216514 |
| **WIRING DIAGRAMS** | eaton-operating-contact-m22-wiring-diagram.eps |

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| **SHOCK** | 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. |
| **10.9.2 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. |
| **OPERATING FREQUENCY** | 500 Operations/h |
| **POLLUTION DEGREE** | 3 |
| **CLIMATIC PROOFING** | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |
| **CONNECTION TO SMARTWIRE-DT** | No |
| **ILLUMINATION** | Non-illuminated |
| **BASE COLOR** | Yellow |
| **ACTUATING FORCE** | 50 N |
| **ACTUATOR DIAMETER** | 38 mm |
| **ACTUATOR TRAVEL AND ACTUATION FORCE (DIN EN 60947-5-1)** | 4.8 mm |
| **AMBIENT OPERATING TEMPERATURE - MAX** | 70 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **DIAMETER CAP** | 38 mm |
| **EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID** | 0 W |
| **FORCE FOR POSITIVE OPENING - MIN** | 15 N |
| **HEAT DISSIPATION CAPACITY PDISS** | 0 W |
| **HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID** | 0.11 W |
| **KNOB TRAVEL** | 5.7 mm |
| **NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)** | 1 |
| **NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)** | 0 |
| **COLOR** | Red |

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| **DESIGN** | Mushroom-shaped<br>Classical |
| **MOUNTING POSITION** | As required |
| **RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)** | 1 kA |
| **CONNECTION TYPE** | Screw connection |
| **MOUNTING METHOD** | Built-in |
| **OVERVOLTAGE CATEGORY** | III |
| **CONNECTION TYPE (AUXILIARY CIRCUIT)** | Screw connection |
| **DEGREE OF PROTECTION** | IP67/IP69K<br>NEMA 4X, 13 |
| **SHOCK RESISTANCE** | Mechanical, According to IEC/EN 60068-2-27<br>50 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms |
| **LIFESPAN, MECHANICAL** | 100,000 Operations |
| **UNLOCKING METHOD** | Key-release |
| **OPENING DIAMETER** | 22.5 mm |
| **RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** | 6 A |
| **STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS** | 0 W |
| **PRODUCT CATEGORY** | RMQ-Titan |
| **SIZE** | Front dimensions: 35 mm |

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|---|---|
| **PROJECT NAME:** | |
| **PROJECT NUMBER:** | |
| **PREPARED BY:** | |
| **DATE:** | |

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