# Specifications



**Photo is representative**

## Eaton 216657

Eaton Moeller® series M22 Pushbutton, RMQ-Titan, Extended, momentary, green, inscribed, Bezel: titanium

### General specifications

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| **PRODUCT NAME** | Eaton Moeller® series M22 pushbutton |
| **CATALOG NUMBER** | 216657 |
| **MODEL CODE** | M22-DH-G-X1 |
| **EAN** | 4015082166571 |
| **PRODUCT LENGTH/DEPTH** | 30 mm |
| **PRODUCT HEIGHT** | 35 mm |
| **PRODUCT WIDTH** | 30 mm |
| **PRODUCT WEIGHT** | 0.012 kg |
| **CERTIFICATIONS** | UL File No.: E29184<br>UL Category Control No.: NKCR<br>CSA Class No.: 3211-03<br>CSA-C22.2 No. 94-91<br>IEC/EN 60947-5<br>UL<br>UL 508<br>CE<br>CSA-C22.2 No. 14-05<br>VDE 0660<br>CSA<br>CSA File No.: 012528<br>IEC/EN 60947<br>DNV<br>GL<br>LR |

## Actuator

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| **ACTUATING FORCE** | 5 N |
| **ACTUATOR COLOR** | Green |
| **ACTUATOR FUNCTION** | Momentary<br>Spring-return |
| **BEZEL COLOR** | Titanium |
| **BEZEL MATERIAL** | Plastic |
| **DESIGN** | Extended<br>Classical |
| **FEATURES** | Labelled |
| **FITTED WITH:** | Front ring |
| **INSCRIPTION** | Inscribed |
| **LENS TYPE** | Round |
| **NUMBER OF COMMAND POSITIONS** | 1 |

## Climatic environmental conditions

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| **AMBIENT OPERATING TEMPERATURE - MAX** | 70 °C |
| **AMBIENT STORAGE TEMPERATURE - MAX** | 80 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **AMBIENT STORAGE TEMPERATURE - MIN** | 40 °C |
| **CLIMATIC PROOFING** | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |

## Communication

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| **CONNECTION TO SMARTWIRE-DT** | Yes<br>With SWD-RMQ connections |

## Design verification

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| **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. |
| **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 |

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| | 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. |
| **10.9.2 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. |
| **EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID** | 0 W |
| **HEAT DISSIPATION CAPACITY PDISS** | 0 W |
| **HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID** | 0 W |
| **RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** | 0 A |
| **STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS** | 0 W |

## General information

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| **DEGREE OF PROTECTION** | IP67<br>NEMA 4X<br>IP66<br>NEMA 3R<br>NEMA 13<br>NEMA 12<br>IP69K |
| **DEGREE OF PROTECTION (FRONT SIDE)** | IP67/IP69K<br>NEMA 4X |
| **LIFESPAN, MECHANICAL** | 5,000,000 Operations |
| **MOUNTING POSITION** | As required |
| **OPENING DIAMETER** | 22.5 mm |
| **OPERATING FREQUENCY** | 3600 Operations/h |
| **PRODUCT CATEGORY** | RMQ-Titan |
| **SIZE** | Front dimensions: 22 x 22 mm |
| **TYPE** | Pushbutton actuator |

## Resources

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|---|---|
| **CATALOGUES** | eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf<br><br>eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf |
| **DECLARATIONS OF CONFORMITY** | eaton-double-actuator-pushbutton-declaration-of-conformity-eu251536en.pdf |
| **DRAWINGS** | eaton-operating-pushbutton-m22-dimensions-005.eps<br><br>eaton-operating-pushbutton-m22-dimensions.eps<br><br>eaton-operating-samrtwire-m22-3d-drawing-002.eps<br><br>116C087<br><br>eaton-general-m22-symbol.eps<br><br>eaton-general-m22-standards.eps<br><br>eaton-general-approval-m22-symbol.eps |
| **ECAD MODEL** | ETN.216657.edz |
| **INSTALLATION INSTRUCTIONS** | IL04716002Z |
| **MCAD MODEL** | DA-CS-drucktaste_hoch |

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

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