# Eaton 216890

Eaton Moeller® series M22 Key-operated actuator, maintained, 2 positions, MS1–MS20, Key withdrawable: 0, I, Bezel: titanium

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| **PRODUCT NAME** | Eaton Moeller® series M22 Key-operated actuator |
| **CATALOG NUMBER** | 216890 |
| **PRODUCT LENGTH/DEPTH** | 70 mm |
| **PRODUCT HEIGHT** | 30 mm |
| **PRODUCT WIDTH** | 30 mm |
| **PRODUCT WEIGHT** | 0.031 kg |
| **CERTIFICATIONS** | UL<br>CE<br>CSA<br>VDE 0660<br>UL File No.: E29184<br>CSA Class No.: 3211-03<br>CSA-C22.2 No. 14-05<br>UL 508<br>CSA-C22.2 No. 94-91<br>CSA File No.: 012528<br>IEC/EN 60947<br>IEC/EN 60947-5<br>UL Category Control No.: NKCR<br>DNV<br>GL<br>LR |

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| **ACCESSORIES** | 1 key included with supplied equipment. |
| **ACTUATOR COLOR** | Black |
| **ACTUATOR FUNCTION** | Maintained<br>Key withdrawable in position 0<br>Key withdrawable in position 1<br>Switching function latching |
| **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 |

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| **DECLARATIONS OF CONFORMITY** | eaton-key-operated-actuator-declaration-of-conformity-uk251348en.pdf<br><br>eaton-pushbutton-declaration-of-conformity-uk251341en.pdf |
| | IL04716002Z |
| **/** | RMQ small E-Stop emergency-stop button |

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| | 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. |
| **10.9.2 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. |
| **FITTED WITH:** | Front ring |
| **OPERATING FREQUENCY** | 100 Operations/h |
| **POLLUTION DEGREE** | 3 |
| **CLIMATIC PROOFING** | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| **CONNECTION TO SMARTWIRE-DT** | Yes<br>With SWD-RMQ connections |
| **ACTUATOR TYPE** | Key |
| **AMBIENT OPERATING TEMPERATURE - MAX** | 70 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID** | 0 W |
| **FORCE FOR POSITIVE OPENING - MIN** | 0 N |
| **HEAT DISSIPATION CAPACITY PDISS** | 0 W |
| **HEAT DISSIPATION PER** | 0 W |

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| **POLE, CURRENT-DEPENDENT PVID** | |
| **OPENING DIAMETER** | 22.5 mm |
| **OPENING HEIGHT** | 0 mm |
| **OPERATING TORQUE** | 0.5 Nm |
| **RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** | 0 A |
| **STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS** | 0 W |
| **SWITCHING ANGLE** | 60 ° |
| **WIDTH OPENING** | 0 mm |
| **BEZEL COLOR** | Titanium |
| **SHOCK RESISTANCE** | Mechanical, According to IEC/EN 60068-2-27<br>30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms |
| **KEY CODE** | Selectable |
| **BEZEL MATERIAL** | Plastic |
| **DESIGN** | Key operated<br>Classical |
| **MOUNTING POSITION** | As required |
| **OVERVOLTAGE CATEGORY** | III |
| **DEGREE OF PROTECTION** | NEMA 4X, 13 |
| **DEGREE OF PROTECTION (FRONT SIDE)** | IP66 |
| **FUNCTIONS** | Stay-put/spring-return function, can be changed with coding parts M22-XC-Y |
| **INDICATOR COLOR** | Other |
| **LENS TYPE** | Round |
| **LIFESPAN, MECHANICAL** | 100,000 Operations |
| **NUMBER OF SWITCH POSITIONS** | 2 |
| **SIZE** | Front diameter: 29.7 mm |
| **PRODUCT CATEGORY** | RMQ-Titan |

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

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