

# Specifications

## Eaton 216529



Eaton Moeller® series M22 Housing, Pushbutton actuators, Enclosure, momentary, 2 NC, 2 N/O, Screw connection, Number of locations 2, Grey, inscribed, Bezel: titanium

### General specifications

|                      |                                                                                                                                                                                                                                                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PRODUCT NAME         | Eaton Moeller® series M22 Housing                                                                                                                                                                                                                                                                                           |
| CATALOG NUMBER       | 216529                                                                                                                                                                                                                                                                                                                      |
| MODEL CODE           | M22-I2-M1                                                                                                                                                                                                                                                                                                                   |
| EAN                  | 4015082165291                                                                                                                                                                                                                                                                                                               |
| PRODUCT LENGTH/DEPTH | 80 mm                                                                                                                                                                                                                                                                                                                       |
| PRODUCT HEIGHT       | 70 mm                                                                                                                                                                                                                                                                                                                       |
| PRODUCT WIDTH        | 120 mm                                                                                                                                                                                                                                                                                                                      |
| PRODUCT WEIGHT       | 0.255 kg                                                                                                                                                                                                                                                                                                                    |
| COMPLIANCES          | CE Marked                                                                                                                                                                                                                                                                                                                   |
| CERTIFICATIONS       | IEC 60947-5<br>UL 508<br>EN 60947-5<br>CSA Std. C22.2 No. 94-91<br>CSA Std. C22.2 No. 14-05<br>VDE<br>IEC/EN 60947-5<br>VDE 0660<br>CE<br>CSA-C22.2 No. 14-05<br>CSA-C22.2 No. 94-91<br>CSA<br>CSA Class No.: 3211-03<br>UL Category Control No.: NKCR<br>UL File No.: E29184<br>CSA File No.: 012528<br>IEC/EN 60947<br>UL |
| CATALOG NOTES        | Contacts with safety function, by positive opening to IEC/EN 60947-5-1                                                                                                                                                                                                                                                      |

| Product specifications                                                           |                                                                                                                                  |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| TYPE                                                                             | Pushbutton actuator                                                                                                              |
| ACTUATOR COLOR                                                                   | Green, red                                                                                                                       |
| ACTUATOR FUNCTION                                                                | Momentary                                                                                                                        |
| 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 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.                                                                                           |

| Resources                  |                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------|
| CATALOGS                   | <a href="#">eaton-rmq-titan-brochure-br047004en-en-us.pdf</a>                                            |
|                            | <a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf</a> |
|                            | <a href="#">Flip catalog - Product Range Catalog - Command and indication</a>                            |
| CERTIFICATION REPORTS      | <a href="#">0000SPC-179</a> <a href="#">0000SPC-183</a>                                                  |
| DECLARATIONS OF CONFORMITY | <a href="#">DA-DC-00004157.pdf</a>                                                                       |
|                            | <a href="#">DA-DC-00004135.pdf</a>                                                                       |
| DRAWINGS                   | <a href="#">eaton-operating-surface-mounting-m22-accessory-dimensions-004.eps</a>                        |
|                            | <a href="#">116X171</a>                                                                                  |
|                            | <a href="#">eaton-general-approval-m22-symbol.eps</a>                                                    |
|                            | <a href="#">eaton-general-m22-standards.eps</a>                                                          |
|                            | <a href="#">116C062</a>                                                                                  |
|                            | <a href="#">eaton-operating-mounting-m22-housing-3d-drawing.eps</a>                                      |
|                            | <a href="#">eaton-general-m22-symbol.eps</a>                                                             |
|                            | <a href="#">116I296</a> <a href="#">0000SPC-180</a>                                                      |
|                            | <a href="#">eaton-operating-button-symbol-007.eps</a>                                                    |
|                            | <a href="#">1160SPC-31</a>                                                                               |
| MCAD MODEL                 | <a href="#">eaton-operating-button-m22-housing-symbol.eps</a>                                            |
|                            | ECAD MODEL <a href="#">ETN.M22-I2-M1</a>                                                                 |
|                            | INSTALLATION INSTRUCTIONS <a href="#">IL04716002Z</a>                                                    |
|                            | INSTALLATION VIDEOS <a href="#">RMQ Flat Design</a>                                                      |
|                            | <a href="#">eaton-cadenas-path-temp-assemblies-bg_d_d_aufbaug_asmtpl.pri</a>                             |
|                            | <a href="#">eaton-cadenas-top_view-bg_d_d_aufbaug_top.pra</a>                                            |
|                            | <a href="#">bg_d_d_aufbaug.stp</a>                                                                       |
|                            | <a href="#">eaton-cadenas-front_view-bg_d_d_aufbaug_front.pra</a>                                        |
|                            | <a href="#">eaton-cadenas-side_view-bg_d_d_aufbaug_side.pra</a>                                          |
|                            | <a href="#">bg_d_d_aufbaug</a>                                                                           |

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| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.                                         |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Is the panel builder's responsibility.                                         |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | Is the panel builder's responsibility.                                         |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Is the panel builder's responsibility.                                         |
| <b>OPERATING FREQUENCY</b>                                      | 3600 Operations/h                                                              |
| <b>CLIMATIC PROOFING</b>                                        | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| <b>CONNECTION TO SMARTWIRE-DT</b>                               | No                                                                             |
| <b>ENCLOSURE MATERIAL</b>                                       | Plastic                                                                        |
| <b>ACTUATING FORCE</b>                                          | 5 N                                                                            |
| <b>ACTUATOR TRAVEL AND ACTUATION FORCE (DIN EN 60947-5-1)</b>   | 4.8 mm                                                                         |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                      | 70 °C                                                                          |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                      | -25 °C                                                                         |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>       | 0 W                                                                            |
| <b>FORCE FOR POSITIVE OPENING - MIN</b>                         | 15 N                                                                           |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                          | 0 W                                                                            |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>        | 0.11 W                                                                         |
| <b>KNOB TRAVEL</b>                                              | 5.7 mm                                                                         |
| <b>NUMBER OF BUTTONS (MUSHROOM SHAPE)</b>                       | 0                                                                              |
| <b>NUMBER OF COMMAND POSITIONS</b>                              | 2                                                                              |
| <b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b>                | 0                                                                              |
| <b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b>            | 2                                                                              |
| <b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>              | 2                                                                              |
| <b>NUMBER OF KEY SWITCHES</b>                                   | 0                                                                              |
| <b>NUMBER OF LOCATIONS</b>                                      | 2                                                                              |
| <b>NUMBER OF PILOT LIGHTS</b>                                   | 0                                                                              |
| <b>NUMBER OF</b>                                                | 2                                                                              |

|                                      |                                                                                                    |
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| <b>MULTIMEDIA</b>                    | <a href="#">RMQ small E-Stop emergency-stop button</a>                                             |
|                                      | <a href="#">MCI MultiColor Light Indicator RMQ compact solution</a>                                |
|                                      | <a href="#">easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator</a> |
|                                      | <a href="#">MCI Multicolor Light Indicator M22 with SmartWire-DT</a>                               |
| <b>SALES NOTES</b>                   | <a href="#">eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf</a>               |
|                                      | <a href="#">eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf</a>                       |
|                                      | <a href="#">eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf</a>                                  |
|                                      | <a href="#">eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf</a>                                |
| <b>SPECIFICATIONS AND DATASHEETS</b> | <a href="#">Eaton Specification Sheet - 216529</a>                                                 |
| <b>SYSTEM OVERVIEW</b>               | <a href="#">Pilot devices - selection aid</a>                                                      |
|                                      | <a href="#">116Z009</a>                                                                            |
| <b>WIRING DIAGRAMS</b>               | <a href="#">eaton-operating-pushbutton-m22-housing-wiring-diagram.eps</a>                          |

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| <b>PUSHBUTTONS</b>                                                   |                                                                                                                                             |
| <b>ENCLOSURE COLOR</b>                                               | Gray                                                                                                                                        |
| <b>BEZEL COLOR</b>                                                   | Titanium                                                                                                                                    |
| <b>NUMBER OF SWITCHES (SELECTOR)</b>                                 | 0                                                                                                                                           |
| <b>RAL-NUMBER</b>                                                    | 7035                                                                                                                                        |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>          | 500 V                                                                                                                                       |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>          | 115 V                                                                                                                                       |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>          | 500 V                                                                                                                                       |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>          | 115 V                                                                                                                                       |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>                 | 220 V                                                                                                                                       |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>                 | 24 V                                                                                                                                        |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 6 A                                                                                                                                         |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0 W                                                                                                                                         |
| <b>PRODUCT CATEGORY</b>                                              | RMQ-Titan                                                                                                                                   |
| <b>SIZE</b>                                                          | Front dimensions: 120 x 80 mm                                                                                                               |
| <b>COLOR</b>                                                         | Light gray                                                                                                                                  |
| <b>DESIGN</b>                                                        | Enclosure                                                                                                                                   |
| <b>MOUNTING POSITION</b>                                             | As required                                                                                                                                 |
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>                  | 1 kA                                                                                                                                        |
| <b>CONNECTION TYPE</b>                                               | Screw connection                                                                                                                            |
| <b>DEGREE OF PROTECTION</b>                                          | IP67/IP69K<br>NEMA 4X, 13                                                                                                                   |
| <b>INSCRIPTION</b>                                                   | Inscribed                                                                                                                                   |
| <b>KNOCKOUTS</b>                                                     | 1 x M20 (cable entry knockout at the side)<br>2 x M25/20 (cable entry knockouts at the side)<br>2 x M20 (cable entry knockouts at the base) |
| <b>LIFESPAN</b>                                                      | 5,000,000 mechanical Operations                                                                                                             |
| <b>SHOCK RESISTANCE</b>                                              | Mechanical, According to IEC/EN 60068-2-27<br>30 g, Mechanical, According to IEC/EN 60068-2-27,<br>Sinusoidal shock 11 ms                   |

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



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