

# 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

|                             |                                                                                                                                                                                                                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series M22 assembled pushbutton                                                                                                                                                                                                                                                                              |
| <b>CATALOG NUMBER</b>       | 216529                                                                                                                                                                                                                                                                                                                      |
| <b>MODEL CODE</b>           | M22-I2-M1                                                                                                                                                                                                                                                                                                                   |
| <b>EAN</b>                  | 4015082165291                                                                                                                                                                                                                                                                                                               |
| <b>PRODUCT LENGTH/DEPTH</b> | 80 mm                                                                                                                                                                                                                                                                                                                       |
| <b>PRODUCT HEIGHT</b>       | 70 mm                                                                                                                                                                                                                                                                                                                       |
| <b>PRODUCT WIDTH</b>        | 120 mm                                                                                                                                                                                                                                                                                                                      |
| <b>PRODUCT WEIGHT</b>       | 0.255 kg                                                                                                                                                                                                                                                                                                                    |
| <b>COMPLIANCES</b>          | CE Marked                                                                                                                                                                                                                                                                                                                   |
| <b>CERTIFICATIONS</b>       | 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 |
| <b>CATALOG NOTES</b>        | Contacts with safety function, by positive opening to IEC/EN 60947-5-1                                                                                                                                                                                                                                                      |
| <b>GLOBAL CATALOG</b>       | 216529                                                                                                                                                                                                                                                                                                                      |
| <b>PRODUCT TYPE</b>         | Assembled pushbutton                                                                                                                                                                                                                                                                                                        |



## Product specifications

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>TYPE</b>                                                                             | Pushbutton actuator                                                                                                              |
| <b>ACTUATOR COLOR</b>                                                                   | Green, red                                                                                                                       |
| <b>ACTUATOR FUNCTION</b>                                                                | Momentary                                                                                                                        |
| <b>10.10 TEMPERATURE RISE</b>                                                           | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                                                       | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.                                                                                       |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Please enquire                                                                                                                   |
| <b>10.2.5 LIFTING</b>                                                                   | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.6 MECHANICAL IMPACT</b>                                                         | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.7 INSCRIPTIONS</b>                                                              | Meets the product standard's requirements.                                                                                       |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                                          | Does not apply, since the entire switchgear needs to be evaluated.                                                               |

## Resources

|                               |                                                                                                                                                                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>                                                                                                                                          |
| CATALOGS                      | <a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf</a>                                                                                                                        |
| DECLARATIONS OF CONFORMITY    | <a href="#">eaton-pushbutton-declaration-of-conformity-eu251543en.pdf</a><br><a href="#">eaton-pushbutton-declaration-of-conformity-uk260006en.pdf</a>                                                                          |
|                               | <a href="#">eaton-operating-surface-mounting-m22-accessory-dimensions-004.eps</a><br><a href="#">eaton-general-m22-standards.eps</a><br><a href="#">eaton-operating-mounting-m22-housing-3d-drawing.eps</a>                     |
| DRAWINGS                      | <a href="#">eaton-general-m22-symbol.eps</a><br><a href="#">eaton-operating-button-symbol-007.eps</a><br><a href="#">eaton-general-approval-m22-symbol.eps</a><br><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>                                                                                                                                                                                                     |
| MCAD MODEL                    | <a href="#">bg_d_d_aufbaug.stp</a><br><a href="#">eaton-enclosure-mcad-drawings-bg-d-d-aufbaug.dwg</a>                                                                                                                          |
| SPECIFICATIONS AND DATASHEETS | <a href="#">Eaton Specification Sheet - 216529</a>                                                                                                                                                                              |
| WIRING DIAGRAMS               | <a href="#">eaton-operating-pushbutton-m22-housing-wiring-diagram.eps</a>                                                                                                                                                       |

|                                                                 |                                                                                |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                   | Meets the product standard's requirements.                                     |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                   | Does not apply, since the entire switchgear needs to be evaluated.             |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>   | Does not apply, since the entire switchgear needs to be evaluated.             |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>        | Is the panel builder's responsibility.                                         |
| <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</b>                                        | 2                                                                              |

|                                                                              |                                  |
|------------------------------------------------------------------------------|----------------------------------|
| <b>POSITIONS</b>                                                             |                                  |
| <b>NUMBER OF CONTACTS<br/>(CHANGE-OVER CONTACTS)</b>                         | 0                                |
| <b>NUMBER OF CONTACTS<br/>(NORMALLY CLOSED CONTACTS)</b>                     | 2                                |
| <b>NUMBER OF CONTACTS<br/>(NORMALLY OPEN CONTACTS)</b>                       | 2                                |
| <b>NUMBER OF KEY<br/>SWITCHES</b>                                            | 0                                |
| <b>NUMBER OF LOCATIONS</b>                                                   | 2                                |
| <b>NUMBER OF PILOT<br/>LIGHTS</b>                                            | 0                                |
| <b>NUMBER OF<br/>PUSHBUTTONS</b>                                             | 2                                |
| <b>ENCLOSURE COLOR</b>                                                       | Gray                             |
| <b>BEZEL COLOR</b>                                                           | Titanium                         |
| <b>NUMBER OF SWITCHES<br/>(SELECTOR)</b>                                     | 0                                |
| <b>RAL-NUMBER</b>                                                            | 7035                             |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT AC, 50<br/>HZ - MAX</b>          | 500 V                            |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT AC, 50<br/>HZ - MIN</b>          | 115 V                            |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT AC, 60<br/>HZ - MAX</b>          | 500 V                            |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT AC, 60<br/>HZ - MIN</b>          | 115 V                            |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT DC -<br/>MAX</b>                 | 220 V                            |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT DC -<br/>MIN</b>                 | 24 V                             |
| <b>RATED OPERATIONAL<br/>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b> | 6 A                              |
| <b>STATIC HEAT<br/>DISSIPATION, NON-<br/>CURRENT-DEPENDENT<br/>PVS</b>       | 0 W                              |
| <b>PRODUCT CATEGORY</b>                                                      | RMQ-Titan                        |
| <b>SIZE</b>                                                                  | Front dimensions: 120 x<br>80 mm |
| <b>COLOR</b>                                                                 | Light gray                       |

|                                              |                                                                                                                                             |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| DESIGN                                       | Enclosure                                                                                                                                   |
| MOUNTING POSITION                            | As required                                                                                                                                 |
| RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ) | 1 kA                                                                                                                                        |
| CONNECTION TYPE                              | Screw connection                                                                                                                            |
| DEGREE OF PROTECTION                         | IP67/IP69K<br>NEMA 4X, 13                                                                                                                   |
| INSCRIPTION                                  | Inscribed                                                                                                                                   |
| KNOCKOUTS                                    | 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) |
| LIFESPAN                                     | 5,000,000 mechanical Operations                                                                                                             |
| 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                      |
| ENCLOSURE COVER COLOR                        | Gray                                                                                                                                        |

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



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