

# Specifications



Photo is representative

## Eaton 216950

Eaton Moeller® series M22 Illuminated pushbutton actuator, RMQ-Titan, Flush, maintained, yellow, Blank, Bezel: titanium

### General specifications

|                             |                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series M22 illuminated pushbutton                                                                                                                                                                                                                                                                                               |
| <b>CATALOG NUMBER</b>       | 216950                                                                                                                                                                                                                                                                                                                                         |
| <b>MODEL CODE</b>           | M22-DRL-Y                                                                                                                                                                                                                                                                                                                                      |
| <b>EAN</b>                  | 4015082169503                                                                                                                                                                                                                                                                                                                                  |
| <b>PRODUCT LENGTH/DEPTH</b> | 30 mm                                                                                                                                                                                                                                                                                                                                          |
| <b>PRODUCT HEIGHT</b>       | 30 mm                                                                                                                                                                                                                                                                                                                                          |
| <b>PRODUCT WIDTH</b>        | 30 mm                                                                                                                                                                                                                                                                                                                                          |
| <b>PRODUCT WEIGHT</b>       | 0.012 kg                                                                                                                                                                                                                                                                                                                                       |
| <b>COMPLIANCES</b>          | CE Marked                                                                                                                                                                                                                                                                                                                                      |
| <b>CERTIFICATIONS</b>       | IEC 60947-5<br>CSA Std. C22.2 No. 14-05<br>EN 60947-5<br>CSA Std. C22.2 No. 94-91<br>UL 508<br>VDE<br>IEC/EN 60947<br>UL Category Control No.: NKCR<br>CE<br>CSA<br>CSA Class No.: 3211-03<br>CSA-C22.2 No. 14-05<br>IEC/EN 60947-5<br>CSA File No.: 012528<br>UL File No.: E29184<br>CSA-C22.2 No. 94-91<br>UL<br>VDE 0660<br>DNV<br>GL<br>LR |



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## Actuator

|                                        |                                                                |
|----------------------------------------|----------------------------------------------------------------|
| <b>ACTUATING FORCE</b>                 | 5 N                                                            |
| <b>ACTUATOR COLOR</b>                  | Yellow                                                         |
| <b>ACTUATOR FUNCTION</b>               | Maintained<br>Switching function latching                      |
| <b>BEZEL COLOR</b>                     | Titanium                                                       |
| <b>BEZEL MATERIAL</b>                  | Plastic                                                        |
| <b>DESIGN</b>                          | Flush<br>Classical                                             |
| <b>FITTED WITH:</b>                    | Front ring                                                     |
| <b>FUNCTIONS</b>                       | Stay-put/spring-return<br>function can be changed<br>on device |
| <b>INSCRIPTION</b>                     | Blank                                                          |
| <b>LENS TYPE</b>                       | Round                                                          |
| <b>MATERIAL</b>                        | Titanium front ring                                            |
| <b>NUMBER OF COMMAND<br/>POSITIONS</b> | 1                                                              |

## Communication

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

## Climatic environmental conditions

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

## Design verification

|                                                                                               |                                                                                                                      |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>10.10 TEMPERATURE RISE</b>                                                                 | Not applicable.                                                                                                      |
| <b>10.11 SHORT-CIRCUIT<br/>RATING</b>                                                         | Is the panel builder's<br>responsibility. The<br>specifications for the<br>switchgear must be<br>observed.           |
| <b>10.12 ELECTROMAGNETIC<br/>COMPATIBILITY</b>                                                | Is the panel builder's<br>responsibility. The<br>specifications for the<br>switchgear must be<br>observed.           |
| <b>10.13 MECHANICAL<br/>FUNCTION</b>                                                          | The device meets the<br>requirements, provided<br>the information in the<br>instruction leaflet (IL) is<br>observed. |
| <b>10.2.2 CORROSION<br/>RESISTANCE</b>                                                        | Meets the product<br>standard's requirements.                                                                        |
| <b>10.2.3.1 VERIFICATION OF<br/>THERMAL STABILITY OF<br/>ENCLOSURES</b>                       | Meets the product<br>standard's requirements.                                                                        |
| <b>10.2.3.2 VERIFICATION OF<br/>RESISTANCE OF<br/>INSULATING MATERIALS<br/>TO NORMAL HEAT</b> | Meets the product<br>standard's requirements.                                                                        |
| <b>10.2.3.3 RESIST. OF<br/>INSUL. MAT. TO<br/>ABNORMAL HEAT/FIRE<br/>BY INTERNAL ELECT.</b>   | Meets the product<br>standard's requirements.                                                                        |

| EFFECTS                                                              |                                                                    |
|----------------------------------------------------------------------|--------------------------------------------------------------------|
| <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. |
| <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>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>            | 0 W                                                                |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                               | 0 W                                                                |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>             | 0 W                                                                |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 0 A                                                                |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0 W                                                                |

## General information

|                                   |                                    |
|-----------------------------------|------------------------------------|
| DEGREE OF PROTECTION              | IP66                               |
|                                   | NEMA 13                            |
|                                   | NEMA 3R                            |
|                                   | NEMA 12                            |
|                                   | IP67                               |
|                                   | NEMA 4X                            |
|                                   | IP69K                              |
| DEGREE OF PROTECTION (FRONT SIDE) | NEMA 4X<br>IP67/IP69K              |
| LIFESPAN, MECHANICAL              | 1,000,000 Operations (AC operated) |
| MOUNTING POSITION                 | As required                        |
| OPENING DIAMETER                  | 22.5 mm                            |
| OPERATING FREQUENCY               | 1800 Operations/h                  |
| PRODUCT CATEGORY                  | RMQ-Titan                          |
| SIZE                              | Front diameter: 29.7 mm            |
| SUITABLE FOR                      | Illumination                       |
| TYPE                              | Illuminated pushbutton actuator    |

## Resources

### CATALOGUES

[eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf](#)

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

### DRAWINGS

[eaton-operating-actuation-m22-dimensions-002.eps](#)

[eaton-operating-pushbutton-m22-dimensions-004.eps](#)

[eaton-general-m22-symbol.eps](#)

[eaton-general-m22-standards.eps](#)

[eaton-operating-button-symbol-008.eps](#)

[eaton-general-approval-m22-symbol.eps](#)

[eaton-operating-samrtwire-m22-3d-drawing.eps](#)

### ECAD MODEL

[ETN.216950.edz](#)

### INSTALLATION INSTRUCTIONS

[IL04716002Z](#)

[DA-CS-drucktaste flach](#)

### MCAD MODEL

[eaton-pushbuttons-mcad-drawings-drucktaste-flach.dwg](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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