

Mushroom actuator, RMQ-Titan, Mushroom, maintained, Mushroom red, red, Blank, Bezel: titanium



Part no. M22-DRP-R  
216745  
EL Number 4355685  
(Norway)

|                                     |  |  |
|-------------------------------------|--|--|
| General specifications              |  |  |
| Product name                        |  | Eaton Moeller® series M22 Mushroom actuator  |
| Part no.                            |  | M22-DRP-R  |
| EAN                                 |  | 4015082167455  |
| Product Length/Depth                |  | 37 millimetre  |
| Product height                      |  | 43 millimetre  |
| Product width                       |  | 37 millimetre  |
| Product weight                      |  | 0.016 kilogram   |
| Compliances                         |  | CE Marked  |
| Certifications                      |  | UL 508<br>IEC 60947-5<br>EN 60947-5<br>CSA Std. C22.2 No. 94-91<br>CSA Std. C22.2 No. 14-05<br>VDE<br>CSA-C22.2 No. 14-05<br>UL Category Control No.: NKCR<br>CSA<br>VDE 0660<br>UL<br>CSA-C22.2 No. 94-91<br>UL File No.: E29184<br>CSA Class No.: 3211-03<br>CSA File No.: 012528<br>CE<br>IEC/EN 60947-5<br>IEC/EN 60947<br>LR<br>DNV<br>GL |
| Product Tradename                   |  | M22  |
| Product Type                        |  | Mushroom actuator  |
| Product Sub Type                    |  | None   |
| Features & Functions                |  |  |
| Bezel color                         |  | Titanium   |
| Bezel material                      |  | Plastic  |
| Design                              |  | Mushroom-shaped<br>Classical   |
| Fitted with:                        |  | Front ring   |
| Inscription                         |  | Blank  |
| Unlocking method                    |  | None   |
| General information                 |  |  |
| Degree of protection                |  | IP67/IP69K<br>NEMA 4X, 13  |
| Lifespan, mechanical                |  | 1,000,000 Operations (AC operated)   |
| Opening diameter                    |  | 22.5 mm  |
| Operating frequency                 |  | 1800 Operations/h  |
| Product category                    |  | RMQ-Titan  |
| Size                                |  | Front dimensions: 22 x 22 mm   |
| Type                                |  | Mushroom-headed pushbutton   |
| Ambient conditions, mechanical      |  |  |
| Mounting position                   |  | As required  |
| 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   |
| Climatic environmental conditions   |  |  |
| Ambient operating temperature - min |  | -25 °C   |

|  |  |  |  |
|--|--|--|--|
| Ambient operating temperature - max  |  |  | 70 °C  |
| Ambient storage temperature - min  |  |  | 40 °C  |
| Ambient storage temperature - max  |  |  | 80 °C  |
| Climatic proofing  |  |  | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78                           |
| <b>Communication</b>   |  |  |  |
| Connection to SmartWire-DT   |  |  | With SWD-RMQ connections<br>Yes  |
| <b>Actuator</b>  |  |  |  |
| Actuating force  |  |  | 5 N  |
| Actuator color   |  |  | Red  |
| Actuator function  |  |  | Maintained<br>Switching function latching  |
| <b>Contacts</b>  |  |  |  |
| Force for positive opening - min   |  |  | 0 N  |
| <b>Design verification</b>   |  |  |  |
| Equipment heat dissipation, current-dependent Pvid                               |  |  | 0 W  |
| Heat dissipation capacity Pdis   |  |  | 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  |
| 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.   |
| 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.   |
| 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. |

## Technical data ETIM 9.0

|  |  |    |            |
|--|--|----|------------|
| Low-voltage industrial components (EG000017) / Front element for mushroom push-button (EC001038)   |  |    |            |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for mushroom push-button actuators (ecI@ss13-27-37-12-12 [AKF030019]) |  |    |            |
| Colour button  |  |    | Red        |
| Construction type lens   |  |    | Round      |
| Diameter cap   |  | mm | 36.5       |
| Hole diameter  |  | mm | 22.5       |
| Width opening  |  | mm | 0          |
| Height opening   |  | mm | 0          |
| Degree of protection (IP)  |  |    | IP67/IP69K |

|                             |  |   |         |
|-----------------------------|--|---|---------|
| Degree of protection (NEMA) |  |   | 4X, 13  |
| Type of button              |  |   | Flat    |
| Suitable for illumination   |  |   | No      |
| With lighting               |  |   | No      |
| Supply voltage lamp         |  | V | 0       |
| Switching function latching |  |   | Yes     |
| Spring-return               |  |   | No      |
| With front ring             |  |   | Yes     |
| Material front ring         |  |   | Plastic |
| Colour front ring           |  |   | Chrome  |
| Suitable for emergency stop |  |   | No      |
| Unlocking method            |  |   | None    |