

Pushbutton, RMQ-Titan, Flat, momentary, black, Blank, Bezel: black



**Part no. M22S-D-S  
216591**

| <b>General specifications</b>         |  |  |
|---------------------------------------|--|--|
| Product name                          |  | Eaton Moeller® series M22 Pushbutton   |
| Part no.                              |  | M22S-D-S   |
| EAN                                   |  | 4015082165918  |
| Product Length/Depth                  |  | 30 millimetre  |
| Product height                        |  | 30 millimetre  |
| Product width                         |  | 30 millimetre  |
| Product weight                        |  | 0.009 kilogram   |
| Compliances                           |  | CE Marked  |
| Certifications                        |  | IEC 60947-5<br>EN 60947-5<br>CSA Std. C22.2 No. 94-91<br>CSA Std. C22.2 No. 14-05<br>UL 508<br>VDE<br>CSA File No.: 012528<br>CE<br>UL<br>VDE 0660<br>UL File No.: E29184<br>CSA-C22.2 No. 14-05<br>CSA-C22.2 No. 94-91<br>CSA<br>IEC/EN 60947<br>CSA Class No.: 3211-03<br>IEC/EN 60947-5<br>UL Category Control No.: NKCR<br>GL<br>DNV<br>LR |
| Product Tradename                     |  | M22  |
| Product Type                          |  | Pushbutton   |
| Product Sub Type                      |  | None   |
| <b>Features &amp; Functions</b>       |  |  |
| Bezel color                           |  | Black  |
| Bezel material                        |  | Plastic  |
| Design                                |  | Flat<br>Classical  |
| Fitted with:                          |  | Front ring   |
| Inscription                           |  | Blank  |
| <b>General information</b>            |  |  |
| Degree of protection                  |  | IP67<br>NEMA 3R<br>NEMA 12<br>IP66<br>NEMA 13<br>IP69K<br>NEMA 4X  |
| Degree of protection (front side)     |  | IP67/IP69K<br>NEMA 4X  |
| Lifespan, mechanical                  |  | 5,000,000 Operations   |
| Opening diameter                      |  | 22.5 mm  |
| Operating frequency                   |  | 3600 Operations/h  |
| Product category                      |  | RMQ-Titan  |
| Size                                  |  | Front dimensions: 22 x 22 mm   |
| Type                                  |  | Pushbutton actuator  |
| <b>Ambient conditions, mechanical</b> |  |  |
| 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   |

| <b>Climatic environmental conditions</b>   |  |  |
|--|--|--|
| 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, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30                           |
| <b>Communication</b>   |  |  |
| Connection to SmartWire-DT   |  | With SWD-RMQ connections<br>Yes  |
| <b>Actuator</b>  |  |  |
| Actuating force  |  | 5 N  |
| Actuator color   |  | Black  |
| Actuator function  |  | Spring-return<br>Momentary   |
| <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 push button (EC000221)   |    |       |
|---|----|-------|
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for push-button actuators (ecl@ss13-27-37-12-10 [AKF028019]) |    |       |
| Colour button   |    | Black |
| Number of command positions   |    | 1     |
| Construction type lens  |    | Round |
| Hole diameter   | mm | 22.5  |
| Width opening   | mm | 0     |

|   |  |    |            |
|---|--|----|------------|
| Height opening                          |  | mm | 0          |
| Type of button                          |  |    | Flat       |
| Suitable for illumination               |  |    | No         |
| With protective cover                   |  |    | No         |
| Labelled                                |  |    | No         |
| Switching function latching             |  |    | No         |
| Spring-return                           |  |    | Yes        |
| With front ring                         |  |    | Yes        |
| Material front ring                     |  |    | Plastic    |
| Colour front ring                       |  |    | Black      |
| Degree of protection (IP), front side   |  |    | IP67/IP69K |
| Degree of protection (NEMA), front side |  |    | 4X         |