

**Changeover switch, RMQ-Titan, With rotary head, momentary, 2 positions, inscribed, Bezel: titanium**

**Part no.** M22-W  
**216853**  
**EL Number** 4355490  
**(Norway)**

| <b>General specifications</b>         |  |   |
|---------------------------------------|--|---|
| Product name                          |  | Eaton Moeller® series M22 Changeover switch   |
| Part no.                              |  | M22-W   |
| EAN                                   |  | 4015082168537   |
| Product Length/Depth                  |  | 43 millimetre   |
| Product height                        |  | 30 millimetre   |
| Product width                         |  | 30 millimetre   |
| Product weight                        |  | 0.013 kilogram  |
| Compliances                           |  | CE Marked   |
| Certifications                        |  | CSA Std. C22.2 No. 14-05<br>IEC 60947-5<br>CSA Std. C22.2 No. 94-91<br>UL 508<br>EN 60947-5<br>VDE<br>CSA-C22.2 No. 94-91<br>VDE 0660<br>CSA Class No.: 3211-03<br>IEC/EN 60947<br>CSA-C22.2 No. 14-05<br>UL File No.: E29184<br>UL Category Control No.: NKCR<br>CSA<br>CE<br>IEC/EN 60947-5<br>CSA File No.: 012528<br>UL |
| Product Tradename                     |  | M22   |
| Product Type                          |  | Changeover switch   |
| Product Sub Type                      |  | None  |
| <b>Features &amp; Functions</b>       |  |   |
| Bezel color                           |  | Titanium  |
| Bezel material                        |  | Plastic   |
| Color                                 |  | Black   |
| Design                                |  | With rotary head  |
| Fitted with:                          |  | Front ring  |
| Functions                             |  | Stay-put/spring-return function, can be changed with coding parts M22-XC-Y  |
| Inscription                           |  | Inscribed   |
| <b>General information</b>            |  |   |
| Accessories                           |  | Rotary head   |
| Degree of protection                  |  | NEMA 4X, 13   |
| Degree of protection (front side)     |  | IP66  |
| Lifespan, mechanical                  |  | 100,000 Operations  |
| Opening diameter                      |  | 22.5 mm   |
| Operating frequency                   |  | 2000 Operations/h   |
| Operating torque                      |  | 0.3 N·m   |
| Product category                      |  | RMQ-Titan   |
| Size                                  |  | Front diameter: 29.7 mm   |
| Switching angle                       |  | 40 °  |
| Type                                  |  | Selector switch actuator  |
| <b>Ambient conditions, mechanical</b> |  |   |
| Mounting position                     |  | As required   |
| Shock resistance                      |  | 30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms<br>Mechanical, According to IEC/EN 60068-2-27  |

| <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, 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>  |  |  |
| Actuator color   |  | Black  |
| Actuator function  |  | Momentary<br>Spring-return   |
| Actuator type  |  | Turn button  |
| Number of switch positions   |  | 2  |
| <b>Contacts</b>  |  |  |
| Force for positive opening - min   |  | 0 N  |
| <b>Design verification</b>   |  |  |
| Equipment heat dissipation, current-dependent P <sub>vid</sub>                   |  | 0 W  |
| Heat dissipation capacity P <sub>diss</sub>                                      |  | 0 W  |
| Heat dissipation per pole, current-dependent P <sub>vid</sub>                    |  | 0 W  |
| Rated operational current for specified heat dissipation (I <sub>n</sub> )       |  | 0 A  |
| Static heat dissipation, non-current-dependent P <sub>vs</sub>                   |  | 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 selector switch (EC000222)   |  |             |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for selector switches (ecl@ss13-27-37-12-13 [AKF031019]) |  |             |
| Number of switch positions  |  | 2           |
| Type of control element   |  | Turn button |
| Suitable for illumination   |  | No          |
| Colour control element  |  | Black       |

|                                       |  |    |          |
|---------------------------------------|--|----|----------|
| Colour indicator light cap            |  |    | Other    |
| Construction type lens                |  |    | Round    |
| Hole diameter                         |  | mm | 22.5     |
| Width opening                         |  | mm | 0        |
| Height opening                        |  | mm | 0        |
| Switching function latching           |  |    | No       |
| Spring-return                         |  |    | Yes      |
| With front ring                       |  |    | Yes      |
| Material front ring                   |  |    | Plastic  |
| Colour front ring                     |  |    | Titanium |
| Degree of protection (IP), front side |  |    | IP66     |
| Degree of protection (NEMA)           |  |    | 4X, 13   |