

**Changeover switch, RMO-Titan, With thumb-grip, maintained, 3 positions, 2 N/O, Bezel: titanium**

**Part no.** **M22-WRK3/K20**  
**216520**  
**EL Number** **4355293**  
**(Norway)**

|                                     |                                                                                                                                                                                                                                                    |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name                        | Eaton Moeller® series M22 Changeover switch                                                                                                                                                                                                        |
| Part no.                            | M22-WRK3/K20                                                                                                                                                                                                                                       |
| EAN                                 | 4015082165208                                                                                                                                                                                                                                      |
| Product Length/Depth                | 130 millimetre                                                                                                                                                                                                                                     |
| Product height                      | 30 millimetre                                                                                                                                                                                                                                      |
| Product width                       | 30 millimetre                                                                                                                                                                                                                                      |
| Product weight                      | 0.037 kilogram                                                                                                                                                                                                                                     |
| Certifications                      | UL Category Control No.: NKCR<br>CSA Class No.: 3211-03<br>CSA-C22.2 No. 14-05<br>IEC/EN 60947<br>UL 508<br>IEC/EN 60947-5<br>UL File No.: E29184<br>CE<br>CSA-C22.2 No. 94-91<br>UL<br>CSA<br>CSA File No.: 012528<br>VDE 0660<br>GL<br>DNV<br>LR |
| Product Tradename                   | M22                                                                                                                                                                                                                                                |
| Product Type                        | Changeover switch                                                                                                                                                                                                                                  |
| Product Sub Type                    | None                                                                                                                                                                                                                                               |
| Bezel color                         | Titanium                                                                                                                                                                                                                                           |
| Bezel material                      | Plastic                                                                                                                                                                                                                                            |
| Design                              | With thumb-grip<br>Classical                                                                                                                                                                                                                       |
| Electric connection type            | Screw connection                                                                                                                                                                                                                                   |
| Fitted with:                        | Front ring                                                                                                                                                                                                                                         |
| Functions                           | Stay-put/spring-return function, can be changed with coding parts M22-XC-Y                                                                                                                                                                         |
| Degree of protection                | IP66<br>NEMA 12                                                                                                                                                                                                                                    |
| Lifespan, mechanical                | 100,000 Operations                                                                                                                                                                                                                                 |
| Opening diameter                    | 22.5 mm                                                                                                                                                                                                                                            |
| Operating frequency                 | 2000 Operations/h                                                                                                                                                                                                                                  |
| Operating torque                    | 0.3 N·m                                                                                                                                                                                                                                            |
| Size                                | Front diameter: 29.7 mm                                                                                                                                                                                                                            |
| Switching angle                     | 60 °                                                                                                                                                                                                                                               |
| Type                                | Selector switch actuator                                                                                                                                                                                                                           |
| 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                                                                                                                             |
| Ambient operating temperature - min | -25 °C                                                                                                                                                                                                                                             |
| Ambient operating temperature - max | 70 °C                                                                                                                                                                                                                                              |
| Climatic proofing                   | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78                                                                                                                                                                     |

|                                                                                  |  |  |                                                                                                                                  |
|----------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------------------------------------------------------------|
| Supply voltage - max                                                             |  |  | 0 V                                                                                                                              |
|                                                                                  |  |  |                                                                                                                                  |
| Connection to SmartWire-DT                                                       |  |  | No                                                                                                                               |
| Connection type                                                                  |  |  | Screw connection                                                                                                                 |
|                                                                                  |  |  |                                                                                                                                  |
| Actuator color                                                                   |  |  | Black                                                                                                                            |
| Actuator function                                                                |  |  | Maintained<br>Switching function latching                                                                                        |
| Actuator type                                                                    |  |  | Toggle                                                                                                                           |
| Number of switch positions                                                       |  |  | 3                                                                                                                                |
|                                                                                  |  |  |                                                                                                                                  |
| Force for positive opening - min                                                 |  |  | 0 N                                                                                                                              |
| Number of contacts (change-over contacts)                                        |  |  | 0                                                                                                                                |
| Number of contacts (normally closed contacts)                                    |  |  | 0                                                                                                                                |
| Number of contacts (normally open contacts)                                      |  |  | 2                                                                                                                                |
|                                                                                  |  |  |                                                                                                                                  |
| Equipment heat dissipation, current-dependent Pvid                               |  |  | 0 W                                                                                                                              |
| Heat dissipation capacity Pdis                                                   |  |  | 0 W                                                                                                                              |
| Heat dissipation per pole, current-dependent Pvid                                |  |  | 0.11 W                                                                                                                           |
| Rated operational current for specified heat dissipation (In)                    |  |  | 6 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                                                           |  |  | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 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 8.0

|                                                                                                                                                                                                  |  |    |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|--------|
| Low-voltage industrial components (EG000017) / Selector switch, complete (EC001029)                                                                                                              |  |    |        |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Selector switch, complete unit (ecl@ss10.0.1-27-37-12-43 [ACN984011]) |  |    |        |
| Number of switch positions                                                                                                                                                                       |  |    | 3      |
| Type of control element                                                                                                                                                                          |  |    | Toggle |
| Suitable for illumination                                                                                                                                                                        |  |    | No     |
| With light source                                                                                                                                                                                |  |    | No     |
| Colour button                                                                                                                                                                                    |  |    | Black  |
| Hole diameter                                                                                                                                                                                    |  | mm | 22.5   |
| Width opening                                                                                                                                                                                    |  | mm | 0      |

|                                               |  |    |                  |
|-----------------------------------------------|--|----|------------------|
| Height opening                                |  | mm | 0                |
| Switching function latching                   |  |    | Yes              |
| Spring-return                                 |  |    | No               |
| Degree of protection (IP)                     |  |    | IP66             |
| Degree of protection (NEMA)                   |  |    | 12               |
| Supply voltage                                |  | V  | 0 - 0            |
| Number of contacts as normally open contact   |  |    | 2                |
| Number of contacts as normally closed contact |  |    | 0                |
| Number of contacts as change-over contact     |  |    | 0                |
| Type of electric connection                   |  |    | Screw connection |
| With front ring                               |  |    | Yes              |
| Material front ring                           |  |    | Plastic          |
| Colour front ring                             |  |    | Titanium         |