

**LED element, for combination with RMQ-Titan operating elements
M22-..., Front fixing, red**

Part no. M22-SWD-LED-R
115969
EL Number 4355005
(Norway)

| General specifications | |
|--|--|
| Product name | Eaton Moeller® series M22 LED element |
| Part no. | M22-SWD-LED-R |
| EAN | 4015081157099 |
| Product Length/Depth | 45 millimetre |
| Product height | 42 millimetre |
| Product width | 10 millimetre |
| Product weight | 0.009 kilogram |
| Certifications | CSA EN 50178 UL File No.: E29184 UL Category Control No.: NKCR CSA Class No.: 3211-07 UL CSA File No.: 2324643 IEC/EN 61131-2 |
| Product Tradename | M22 |
| Product Type | LED element |
| Product Sub Type | None |
| Features & Functions | |
| Fitted with: | Light source |
| Functions | For combination with RMQ-Titan operating elements M22-... |
| Light color | Red |
| General information | |
| Degree of protection | IP20 |
| Overvoltage category | Not applicable |
| Pollution degree | 2 |
| Voltage type | DC |
| Ambient conditions, mechanical | |
| Constant acceleration | 1 g, 8.4 - 150 Hz, according to IEC/EN 61131-2, Vibrations |
| Constant amplitude | 3,5 mm, 5 - 8.4 Hz, according to IEC/EN 61131-2, Vibrations |
| Drop and topple | 50 mm Drop height, Drop to IEC/EN 60068-2-31 |
| Height of fall (IEC/EN 60068-2-32) - max | 0.3 m |
| Mounting position | As required |
| Shock resistance | 15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 9 Impacts |
| Climatic environmental conditions | |
| Ambient operating temperature - min | -30 °C |
| Ambient operating temperature - max | 70 °C |
| Environmental conditions | Condensation: prevent with appropriate measures |
| Relative humidity | 9 - 95 % (non-condensing, IEC/EN 60068-2-30) |
| Electro magnetic compatibility | |
| Air discharge | 8 kV, according to IEC 61131-2, level 3, ESD |
| Burst impulse | 2 kV, Supply cable, according to IEC/EN 61131-2, Level 3 1 kV, SmartWire-DT cable, according to IEC/EN 61131-2, Level 3 |
| Contact discharge | 4 kV, according to IEC/EN 61131-2, Level 2, ESD |
| Electromagnetic fields | 1 V/m at 2.0 - 2.7 GHz (according to IEC/EN 61131-2:2008) 10 V/m at 80 - 1000 MHz (according to IEC/EN 61131-2:2008) 3 V/m at 1.4 - 2 GHz (according to IEC/EN 61131-2:2008) |
| Radiated RFI | 10 V (IEC/EN 61131-2:2008, Level 3) |
| Radio interference class | Class A (EN 55011) |

| Electrical rating | | |
|--|--|--|
| Rated operational voltage (Ue) at AC - max | | 0 V |
| Rated operational voltage (Ue) at AC - min | | 0 V |
| Rated operational voltage (Ue) at DC - max | | 30 V |
| Rated operational voltage (Ue) at DC - min | | 30 V |
| Communication | | |
| Connection | | SmartWire-DT plug connector SWD4-8SF2-5 |
| Connection to SmartWire-DT | | Yes |
| Connection type | | Front fixing SWD: Plug, 8-pole |
| LED indicator | | Status indication of SmartWire-DT network: Green LED |
| Station | | SmartWire-DT slave, SmartWire-DT network |
| Design verification | | |
| 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 | | 0.3 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 | | Meets the product standard's requirements. |
| 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 9.0

Low-voltage industrial components (EG000017) / Lamp holder block for control circuit devices (EC000204)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Bulb socket block for command and alarm devices (ecl@ss13-27-37-12-09 [AKF027019])

| | | |
|---|---|---------|
| Transformer integrated | | No |
| With integrated voltage decreasing resistor | | No |
| With light source | | Yes |
| With integrated diode | | No |
| Lamp holder | | None |
| Rated voltage Ue at AC 50 Hz | V | 0 - 0 |
| Rated voltage Ue at AC 60 Hz | V | 0 - 0 |
| Rated voltage Ue at DC | V | 30 - 30 |
| Voltage type for actuating | | DC |

| | | | |
|-----------------------------------|--|--|-------------------------|
| Lamp type | | | LED |
| Connection type auxiliary circuit | | | Flat plug-in connection |
| Colour light source | | | Red |
| Type of fastening | | | Front fastening |