

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



Part no. **M22-SWD-LED-W**
115966
EL Number **4355002**
(Norway)

General specifications		
Product name		Eaton Moeller® series M22 LED element
Part no.		M22-SWD-LED-W
EAN		4015081157068
Product Length/Depth		45 millimetre
Product height		42 millimetre
Product width		10 millimetre
Product weight		0.009 kilogram
Certifications		CSA Class No.: 3211-07 CSA File No.: 2324643 CSA IEC/EN 61131-2 UL File No.: E29184 UL EN 50178 UL Category Control No.: NKCR
Product Tradename		M22
Product Type		LED element
Product Sub Type		None
Features & Functions		
Color		White
Fitted with:		Light source
Functions		For combination with RMQ-Titan operating elements M22-...
Light color		White
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		10 V/m at 80 - 1000 MHz (according to IEC/EN 61131-2:2008) 1 V/m at 2.0 - 2.7 GHz (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			SWD: Plug, 8-pole Front fixing
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			White
Type of fastening			Front fastening