DATASHEET - M22-SWD-LED-B

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

Powering Business Worldwide™

Part no.	**M22-SWD-LED-B**
	115967
EL Number (Norway)	**4355003**

General specifications

Product name	Eaton Moeller® series M22 LED element
Part no.	M22-SWD-LED-B
EAN	4015081157075
Product Length/Depth	45 millimetre
Product height	42 millimetre
Product width	10 millimetre
Product weight	0.009 kilogram
Certifications	IEC/EN 61131-2 EN 50178 CSA Class No.: 3211-07 UL File No.: E29184 UL Category Control No.: NKCR CSA CSA File No.: 2324643 UL
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	Blue

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
Ambient storage temperature - min	-40 °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			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 Pdiss			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			Blue
Type of fastening			Front fastening