

DATASHEET - M22-LED230-R



LED element, red, front mount, 85-264VAC

Part no. M22-LED230-R
216564
EL Number 4355376
(Norway)

General specifications		
Product name		Eaton Moeller® series M22 Accessory LED
Part no.		M22-LED230-R
EAN		4015082165642
Product Length/Depth		38 millimetre
Product height		10 millimetre
Product width		37 millimetre
Product weight		0.011 kilogram
Compliances		CE Marked
Certifications		VDE IEC 60947-5 CSA Class No.: 3211-03 CE CSA Std. C22.2 No. 14-05 CSA-C22.2 No. 94-91 IEC/EN 60947-5 CSA-C22.2 No. 14-05 EN 60947-5 UL IEC 60947-5-1 CSA CSA Std. C22.2 No. 94-91 CSA File No.: 012528 UL Category Control No.: NKCR UL 508 UL File No.: E29184
Product Tradename		M22
Product Type		Accessory
Product Sub Type		LED
Features & Functions		
Fitted with:		Light source Diode
Light color		Red
General information		
Degree of protection		IP20
Lifespan, electrical		100,000 h (at 25°C, according to EN60064)
Operating torque		0.8 N·m
Overvoltage category		III
Pollution degree		3
Rated impulse withstand voltage (Uimp)		6000 V AC
Voltage type		AC
Ambient conditions, mechanical		
Mounting position		As required
Shock resistance		30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27
Climatic environmental conditions		
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 Damp heat, constant, to IEC 60068-2-78
Terminal capacities		
Terminal capacity (solid)		0.75 - 2.5 mm²
Terminal capacity (stranded)		0.5 - 2.5 mm²

Electrical rating		
Power consumption		Max. 0.33 W
Rated insulation voltage (Ui)		500 V
Rated operational current (Ie) - min		5 mA
Rated operational current (Ie) - max		15 mA
Rated operational voltage (Ue) at AC - max		264 V
Rated operational voltage (Ue) at AC - min		85 V
Rated operational voltage (Ue) at DC - max		0 V
Rated operational voltage (Ue) at DC - min		0 V
Communication		
Connection to SmartWire-DT		No
Connection type		Front fixing
Contacts		
Force for positive opening - min		0 N
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		1 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 (ecI@ss13-27-37-12-09 [AKF027019])		
Transformer integrated		No
With integrated voltage decreasing resistor		No
With light source		Yes
With integrated diode		Yes
Lamp holder		None
Rated voltage Ue at AC 50 Hz	V	85 - 264
Rated voltage Ue at AC 60 Hz	V	85 - 264

Rated voltage Ue at DC		V	0 - 0
Voltage type for actuating			AC
Lamp type			LED
Connection type auxiliary circuit			Screw connection
Colour light source			Red
Type of fastening			Front fastening