

Specifications



Eaton 197142

Eaton Moeller® series M22 LED element,
Flat Rear, red, front mounting, High
Performance

General specifications

PRODUCT NAME	Eaton Moeller® series M22 Accessory LED
CATALOG NUMBER	197142
MODEL CODE	M22-FLED-R-HP
EAN	4015080895237
PRODUCT LENGTH/DEPTH	37.8 mm
PRODUCT HEIGHT	14.4 mm
PRODUCT WIDTH	10 mm
PRODUCT WEIGHT	0.004 kg
CERTIFICATIONS	CSA Class No.: 3211-03 UL 508 CSA File No.: 012528 UL Category Control No.: NKCR CSA-C22.2 No. 94-91 UL CSA CE UL File No.: E29184 IEC 60947-5-1 CSA-C22.2 No. 14-05 IEC/EN 60947-5
GLOBAL CATALOG	197142

Product specifications

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.
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.

Resources

CATALOGS

[eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf](#)

[eaton-rmq-titan-brochure-br047004en-en-us.pdf](#)

[Flip catalog - Product Range Catalog - Command and indication](#)

DECLARATIONS OF CONFORMITY

[DA-DC-00004135.pdf](#)

[DA-DC-00004975.pdf](#)

[DA-DC-00004971.pdf](#)

[eaton-accessory-declaration-of-conformity-eu250861en.pdf](#)

[DA-DC-00004157.pdf](#)

DRAWINGS

[eaton-operating-contact-m22-led-element-dimensions.eps](#)

[eaton-operating-m22-led-element-3d-drawing.eps](#)

[eaton-operating-led-m22-led-element-standards.eps](#)

[eaton-operating-button-symbol-006.eps](#)

ECAD MODEL

[DA-CE-ETN.M22-FLED-R-HP](#)

FLYERS

[eaton-rmq-titan-selection-aid-brochure-fl047002-en-us.pdf](#)

INSTALLATION INSTRUCTIONS

[IL04716002Z](#)

INSTALLATION VIDEOS

[RMQ Flat Design](#)

MCAD MODEL

[m22_fled.dwg](#)

[m22_fled.stp](#)

[RMQ small E-Stop emergency-stop button](#)

MULTIMEDIA

[MCI MultiColor Light Indicator RMQ compact solution](#)

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.
FITTED WITH:	Light source Diode
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Dry heat to IEC 60068-2-2 Damp heat, constant, to IEC 60068-2-78
CONNECTION TO SMARTWIRE-DT	No
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	85 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
FORCE FOR POSITIVE OPENING - MIN	0 N
HEAT DISSIPATION CAPACITY PDISS	0 W

	easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator
	MCI Multicolor Light Indicator M22 with SmartWire-DT
SALES NOTES	eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf
	eaton-rmq-titan-high-performance-led-flyer-fl047008en-en-us.pdf
	eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf
	eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf
	eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf

HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
RATED INSULATION VOLTAGE (UI)	250 V
RATED OPERATIONAL CURRENT (IE) - MAX	23 mA
RATED OPERATIONAL CURRENT (IE) - MIN	10 mA
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
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	18 V
VOLTAGE TYPE	AC/DC
FASTENING TYPE	Front fastening
MOUNTING POSITION	As required
LIGHT COLOR	Red
LAMP TYPE	LED
OVERVOLTAGE CATEGORY	III
CONNECTION TYPE (AUXILIARY CIRCUIT)	Screw connection
DEGREE OF PROTECTION	IP20
LAMP HOLDER	None
POWER CONSUMPTION	Max. 0.55 W
RADIATED RFI	10 V (IEC/EN 61131-2:2008, Level 3)
RADIO INTERFERENCE CLASS	Class A (EN 55011)
LIFESPAN, ELECTRICAL	100,000 h (at 25°C, according to EN60064)
TERMINAL CAPACITY (STRANDED)	1 x (0.2 - 1.5) mm ²
SHOCK RESISTANCE	50 g, Mechanical, according to IEC/EN 60068-2-27, Half-

	Sinusoidal shock 11 ms
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.25 - 1) mm ² Use WAGO Variocrimp 4 crimping tool; please enquire for others
TERMINAL CAPACITY (SOLID)	1 x (0.2 - 1.5) mm ² 1 x (0.75 - 1.5) mm ² Can be plugged without tools

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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