Specifications

Eaton 197142

Catalog Number: 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

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

Powering Business Worldwide

Features & Functions

Fitted with:

Light source

Diode

Light color

Red

General

Degree of protection

IP20

Lifespan, electrical

100,000 h (at 25°C, according to EN60064)

Overvoltage category

III

Pollution degree

3

Rated impulse withstand voltage (Uimp)

4000 V AC

Voltage type

AC/DC

Ambient conditions, mechanical

Mounting position

As required

Shock resistance

50 g, Mechanical, according to IEC/EN 60068-2-27, Half-Sinusoidal shock 11 ms

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

85 °C

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

Electro magnetic compatibility

Radiated RFI

10 V (IEC/EN 61131-2:2008, Level 3)

Radio interference class

Class A (EN 55011)

Terminal capacities

Terminal capacity (flexible with ferrule)

1 x (0.25 - 1) mm²

Use WAGO Variocrimp 4 crimping tool; please enquire for others

Terminal capacity (solid)

1 x (0.2 - 1.5) mm²

1 x (075 - 1.5) mm² Can be plugged without tools

Terminal capacity (stranded)

1 x (0.2 - 1.5) mm²

Electrical rating

Power consumption

Max. 0.55 W

Rated insulation voltage (Ui)

250 V

Rated operational current (Ie) - min

10 mA

Rated operational current (Ie) - max

23 mA

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

Communication

Connection to SmartWire-DT

No

Contacts

Force for positive opening - min

0 N

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

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.

Resources

Catalogs

eaton-rmq-titan-brochure-br047004en-en-us.pdf

eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf

Flip catalog - Product Range Catalog - Command and indication

Declarations of conformity

DA-DC-00004135.pdf

DA-DC-00004157.pdf

DA-DC-00004180.pdf

DA-DC-00004975.pdf

DA-DC-00004141.pdf

DA-DC-00004971.pdf

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

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

Installation instructions

IL04716002Z

Installation videos

RMQ Flat Design

mCAD model

m22_fled.dwg

m22_fled.stp

Multimedia

MCI Multicolor Light Indicator M22 with SmartWire-DT

easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator

RMQ small E-Stop emergency-stop button

MCI MultiColor Light Indicator RMQ compact solution

Sales notes

eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf

eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf

eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf

eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf

eaton-rmq-titan-high-performance-led-flyer-fl047008en-en-us.pdf

System overview

Pilot devices - selection aid

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.

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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