Specifications

Eaton 188109



Catalog Number: 188109

Eaton Moeller® series M30 Potentiometer, flat front, M30, 30.5 mm, R 4.7 kΩ, P 0.5 W, Front ring stainless steel

General specifications

Product Name
Eaton Moeller® series M30 Potentiometer

Catalog Number
188109

EAN
4015081857876

Product Length/Depth
36 mm

Product Height
63 mm

Product Width
46 mm

Product Weight
0.055 kg

Certifications
IEC/EN 60947
VDE 0660

Powering Business Worldwide

Features & Functions

Bezel color

Stainless steel

Design

Flat front

Electric connection type

Screw connection

Fitted with:

3 individual screw terminals

General

Accuracy

± 10 % (linear), Resistance value

Degree of protection

IP66

NEMA Other

Lifespan, mechanical

25,000 Operations

Opening diameter

30 mm

Overvoltage category

III

Pollution degree

3

Rated impulse withstand voltage (Uimp)

4000 V AC

Type

Potentiometer

Ambient conditions, mechanical

Mounting position

As required

Shock resistance

Not planned

Climatic environmental conditions

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

70 °C

Climatic proofing

Damp heat, cyclic, to IEC 60068-2-30

Damp heat, constant, to IEC 60068-2-78

Terminal capacities

Terminal capacity (solid)

0.5 - 1.5 mm²

Terminal capacity (stranded)

0.5 - 1.5 mm²

Tightening torque

0.5 Nm, Screw terminals

Electrical rating

Power consumption

0.5 W

Rated insulation voltage (Ui)

250 V

Rated power

0.5 VA

Resistance

4700 Ohm

Communication

Connection to SmartWire-DT

No

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

0.5 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

Please enquire

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

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

Drawings

eaton-operating-m30-dimensions-006.eps

eaton-operating-m30-dimensions-004.eps

eaton-operating-m30-potentiometer-dimensions.eps

eaton-operating-m30-dimensions-005.eps

eaton-general-approval-m22-symbol.eps

eaton-general-m22-symbol.eps

eaton-operating-m30-potentiometer-3d-drawing.eps

eCAD model

DA-CE-ETN.M30I-FR4K7

Installation instructions

eaton-operating-devices-m30-rmq-titan-flat-front-instruction-leaflet-il047019zu.pdf

IL047030ZU

Installation videos

RMQ Flat Design

mCAD model

DA-CD-potentiometer_flatfront

DA-CS-potentiometer_flatfront

Multimedia

MCI Multicolor Light Indicator M22 with SmartWire-DT

MCI MultiColor Light Indicator RMQ compact solution

RMQ small E-Stop emergency-stop button

easyE4 SmartWire-DT module with Remote Touch Display and RMQ

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.

multi color indicator

Sales notes

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

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

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

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

System overview

Pilot devices - selection aid

Wiring diagrams

eaton-operating-potentiometer-m30-wiring-diagram.eps



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