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Eaton Moeller® series M22 Potentiometer, Classical, M22, 22.5 mm, R 4.7 kΩ, P 0.5 W, Bezel: titanium

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Eaton Moeller® series M22 Flush mounting plate, 6 mounting locations

- General specifications
- Product specifications

General specifications

Product Name
Eaton Moeller® series M22 Potentiometer
Catalog Number
229490
Model Code
M22-R4K7
EAN
4015082294908
Product Length/Depth
70 mm
Product Height
29 mm
Product Width
29 mm
Product Weight
0.034 kg
Compliances
CE Marked
Certifications
UL 508
EN 60947-5
IEC 60947-5
CSA Std. C22.2 No. 94-91
CSA Std. C22.2 No. 14-05
CSA Class No.: 3211-03
IEC/EN 60947-5
CSA
IEC/EN 60947
CSA-C22.2 No. 94-91
CSA-C22.2 No. 14-05
CE
UL Category Control No.: NKCR
CSA File No.: 012528
UL File No.: E29184
VDE 0660
UL

Product specifications

Rated operational current for specified heat dissipation (In)
0 A
10.11 Short-circuit rating
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
Opening diameter
22.5 mm
10.4 Clearances and creepage distances
Meets the product standard's requirements.
10.12 Electromagnetic compatibility
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.
Design
Classical
10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.
Fitted with:
3 individual screw terminals

10.8 Connections for external conductors
Is the panel builder's responsibility.
Terminal capacity (stranded)
0.5 - 1.5 mm²
Ambient operating temperature - max
70 °C
Bezel color
Titanium
Climatic proofing
Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30
Connection to SmartWire-DT
No
Static heat dissipation, non-current-dependent Pvs
0.5 W
10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
Resistance
4700 Ohm
Ambient operating temperature - min
-25 °C
10.6 Incorporation of switching devices and components
Does not apply, since the entire switchgear needs to be evaluated.
10.5 Protection against electric shock
Does not apply, since the entire switchgear needs to be evaluated.
Mounting position
As required
Electric connection type
Screw connection
10.13 Mechanical function
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.
10.9.4 Testing of enclosures made of insulating material
Is the panel builder's responsibility.
10.3 Degree of protection of assemblies
Does not apply, since the entire switchgear needs to be evaluated.
Heat dissipation per pole, current-dependent Pvid
0 W
Equipment heat dissipation, current-dependent Pvid
0 W
Heat dissipation capacity Pdiss
0 W
Terminal capacity (solid)
0.5 - 1.5 mm²
Accuracy
± 10 % (linear), Resistance value
Number of revolutions - min
1
Power consumption
0.5 W
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.
Lifespan, mechanical
25,000 Operations
10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.
Rated power
0.5 VA
Overvoltage category
III
Degree of protection
IP66

NEMA Other
Pollution degree
3
10.7 Internal electrical circuits and connections
Is the panel builder's responsibility.
Rated impulse withstand voltage (Uimp)
4000 V AC
10.10 Temperature rise
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
Tightening torque
0.5 Nm, Screw terminals
Type
Potentiometer
10.2.2 Corrosion resistance
Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation
Please enquire
10.2.7 Inscriptions
Meets the product standard's requirements.
Number of revolutions - max
1
Shock resistance
30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms
Mechanical, According to IEC/EN 60068-2-27
Rated insulation voltage (Ui)
250 V
Serial Number Verified :

Authenticated: ✔
The product is verified as being authentic; however, this does not guarantee the condition or fit for purpose of the product.

Brochures

- RMQ Titan - brochure
- RMQ Flat Enclosure - Flyer
- RMQ Titan emergency stop push button - Flyer
- RMQ MCI - Flyer
- RMQ Small E-Stop - Flyer

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Catalogs

- Flip catalog - Product Range Catalog - Command and indication
- Product Range Catalog Command and Indication Control Circuit Devices, Signal Towers

Certification reports

- DA-DC-00004157.pdf
- DA-DC-00004135.pdf

Drawings

- eaton-operating-potentiometer-m22-dimensions-003.eps
- eaton-general-m22-symbol.eps
- eaton-general-approval-m22-symbol.eps
- eaton-general-m22-standards.eps

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eCAD model

- DA-CE-ETN.M22-R4K7

Installation instructions

- [IL047030ZU](#)
- [IL04716002Z](#)

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Installation videos

- [RMQ Flat Design](#)

mCAD model

- [DA-CD-potentiometer](#)
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System overview

- [Pilot devices - selection aid](#)

Wiring diagrams

- [eaton-operating-potentiometer-m30-wiring-diagram.eps](#)

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