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M22S-R1K - Potentiometer, Classical, M22, 22.5 mm, R 1 kΩ, P 0.5 W, Bezel: black



232231 M22S-R1K

Overview Specifications Resources



232231 M22S-R1K

Potentiometer, Classical, M22, 22.5 mm, R1 kΩ, P0.5 W, Bezel: black Alternate Catalog No.

H.-Nurmer (Norway)

4355469

Potentiometer, RVQ design: Classical, Part group reference (e.g. DIL): M22, Mounting hole diameter: 22.5 mm, Single unit, Description: 3 individual screw terminals, Accuracy of resistance value: \pm 10% (linear), Impedance: R= 1 kQ, Rated power: P= 0.5 W, Degree of Protection: IP66, Bezel: black, Connection to SmartWire-DT: no, Standards: IEC/EN 60947, VDE 0660

- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Approvals
- Dimensions

Delivery program

RIMQ design

Classical

Part group reference (e.g. DIL)

M₂2

Mounting hole diameter $[\Box]$

22.5 mm

Basic function

Potentiometer

Single unit/Complete unit

Single unit

Description

3 individual screw terminals

Accuracy of resistance value: ± 10% (linear)

Contact sequence



Impedance [R]

1 kΩ

Rated power [P]

0.5 W

Degree of Protection

IP66

Front ring

Bezel: black

Connection to SmartWire-DT

Technical data

General

Standards

IEC/EN 60947

VDE 0660

Lifespan, mechanical [Operations]

25000

Climatic proofing

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

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

Degree of Protection

IP66

Ambient temperatureOpen

-25 - +70 °C

Mounting position

As required

Mechanical shock resistance

30

Shock duration 11 ms

Sinusoidal

according to IEC 60068-2-27 g

Terminal capacitiesSolid

0.5 - 1.5 mm²

Terminal capacitiesStranded

0.5 - 1.5 mm²

Tightening torque for terminal screw

0.5 Nm

shipping classification

DNV

GL

LR



Contacts

Rated impulse withstand voltage [U_{imp}]

4000 V AC

Rated insulation voltage [U]

250 V

Overvoltage category/pollution degree

111/3

Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [In]

0 A

Heat dissipation per pole, current-dependent [P_{id}]

0 W

Equipment heat dissipation, current-dependent [Pid]

0 W

Static heat dissipation, non-current-dependent [Pvs]

0.5 W

Heat dissipation capacity [Pdiss]

0 W

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+70 °C

IEC/EN 61439 design verification

10.2 Strength of materials and parts 10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat Weets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects

Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.4 Resistance to ultra-violet (UV) radiation

Please enquire

10.2 Strength of materials and parts 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES

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 Insulation properties 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

10.9 Insulation properties 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9 Insulation properties 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 7.0

Low-voltage industrial components (EG000017) / Potentiometer for control circuit devices (EC001027)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Potentiometer for command devices (ecl@ss10.0.1-27-37-12-27 [AKF045014])

Resistance

1000 Ohm

Power consumption

0.5 W

Hole diameter

22.5 mm

Number of revolutions

1 - 1

Type of electric connection

Screw connection

Degree of protection (IP)

IP66

Degree of protection (NEVA)

4X

Approvals

Product Standards

IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking

UL File No.

E29184

UL Category Control No.

NKCR

CSA File No.

012528 CSA Class No. 3211-03 North America Certification UL listed, CSA certified Degree of Protection UL/CSA Type 3R, 4X, 12, 13

Dimensions

CAD data

- Product-specific CAD data (Web)
- 3D Preview (Web)

DWG files

• DA-CD-potentiometer File (Web, Language independent)

edz files

• DA-CE-ETN.M22S-R1K File (Web)

Step files

• DA-CS-potentiometer (Web, Language independent)

3D drawing

116|329 Line drawing Potentiometer

Wiring diagram



Potentiometer

Dimensions single product

116X145 Line drawing Potentiometer

116X217 Line drawing Potentiometer

Product photo



Symbol

Germanischer Lloyd 0000SPC-180

Graphic

Germanischer Lloyd approval for Germany (color logo)



Approval Norway Det Norske Veritas DNV

Instruction Leaflet

 RMQ-Titan System (IL04716002Z) Asset former AWA1160-1745, IL04716001E (PDF, 09/2020, multilingual)

StandardsSymbol

0000SPC-179

Graphic

Lloyd's Register approval for Great Britain

Declaration of Conformity

EU

• RMQ Titan (Operating and signalling devices) M22.../M80.../C22.../C30... (DA-DC-00003657) Asset (PDF)

UK

• RMQ Titan (Operating and signalling devices) M22.../M80.../C22.../C30... (DA-DC-00003960) Asset (PDF)

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