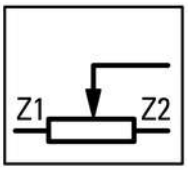


# Potentiometer, 4.7kOhm, front mount

**Part no.** M22S-R4K7
**Article no.** 232232
**Catalog No.** M22S-R4K7Q

## Delivery programme

| | | | |
|---|---|---|---|
| Basic function | | | Potentiometer |
| Single unit/Complete unit | | | Single unit |
| Description | | | 3 individual screw terminals<br>Accuracy of resistance value: ± 10% (linear) |
| Contact sequence | | |  |
| Impedance | R | kΩ | 4.7 |
| Rated power | P | W | 0.5 |
| Degree of Protection | | | IP66 |
| Front ring | | | Bezel: black |
| Connection to SmartWire-DT | | | no |

## Technical data

### General

| | | | |
|---|---|---|---|
| Standards | | | IEC/EN 60947<br>VDE 0660 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | | |
| Open | | °C | -25 - +70 |
| Mounting position | | | As required |
| Mechanical shock resistance | | g | 30<br>Shock duration 11 ms<br>Sinusoidal<br>according to IEC 60068-2-27 |
| Terminal capacities | | $mm^2$ | |
| Solid | | $mm^2$ | 0.5 - 1.5 |
| Stranded | | $mm^2$ | 0.5 - 1.5 |

### Contacts

| | | | |
|---|---|---|---|
| Rated impulse withstand voltage | $U_{imp}$ | V AC | 4000 |
| Rated insulation voltage | $U_i$ | V | 250 |
| Overvoltage category/pollution degree | | | III/3 |

## Design verification as per IEC/EN 61439

| | | | |
|---|---|---|---|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | $I_n$ | A | 0 |
| Heat dissipation per pole, current-dependent | $P_{vid}$ | W | 0 |
| Equipment heat dissipation, current-dependent | $P_{vid}$ | W | 0 |
| Static heat dissipation, non-current-dependent | $P_{vs}$ | W | 0.5 |
| Heat dissipation capacity | $P_{diss}$ | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 70 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |
| 10.2.3.1 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 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. |
| 10.9.3 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. |

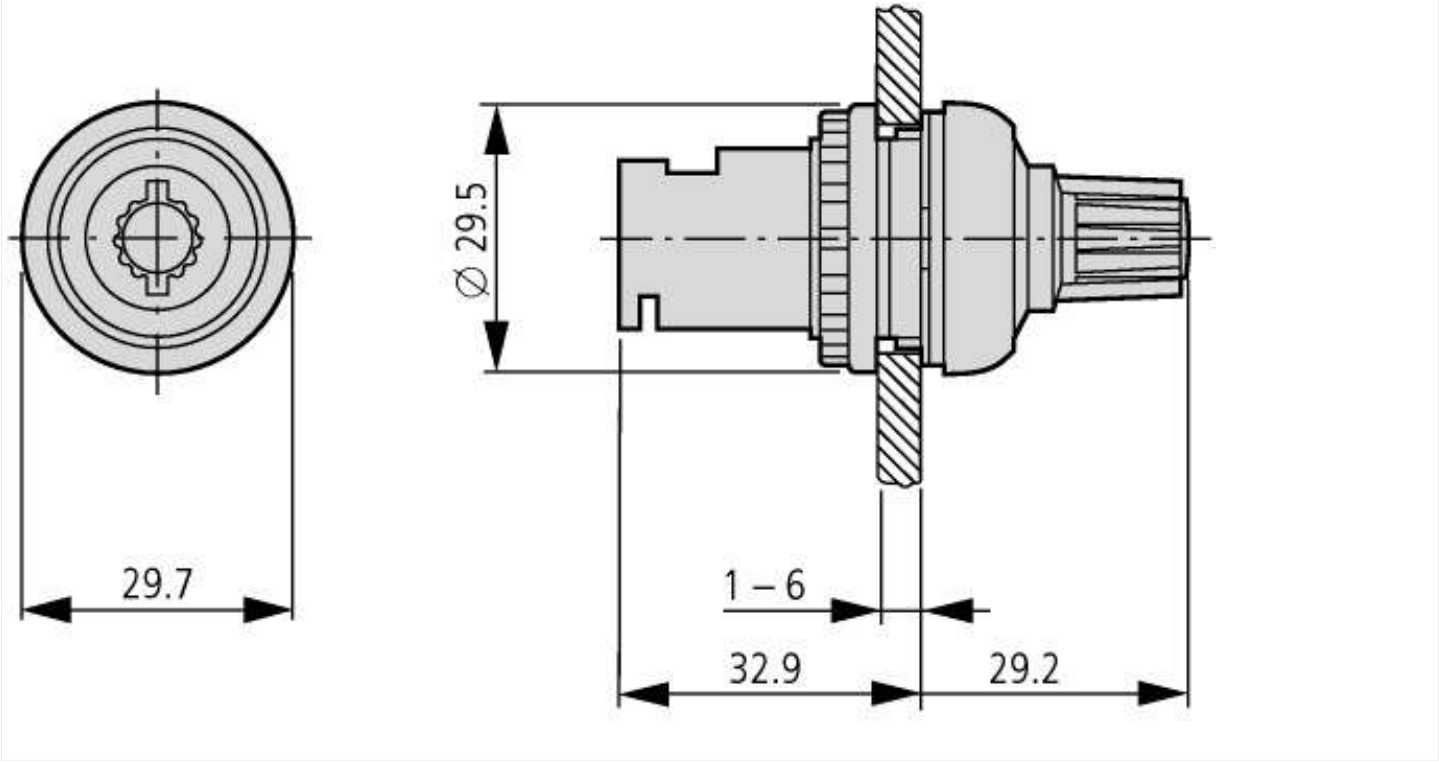
## Technical data ETIM 6.0

| | | | |
|---|---|---|---|
| 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@ss8.1-27-37-12-27 [AKF045011]) | | | |
| Resistance | | Ohm | 4700 |
| Power consumption | | W | 0.5 |
| Hole diameter | | mm | 22 |
| Degree of protection (IP) | | | IP66 |

## Approvals

| | | | |
|---|---|---|---|
| | | | IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking |
| | | | E29184 |
| | | | NKCR |
| | | | 012528 |
| | | | 3211-03 |
| | | | UL listed, CSA certified |
| | | | UL/CSA Type 3R, 4X, 12, 13 |

## Dimensions




## Additional product information (links)

| IL04716002Z (AWA1160-1745) RMQ-Titan System | |
|---|---|
| IL04716002Z (AWA1160-1745) RMQ-Titan System | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716002Z2015_02.pdf |


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