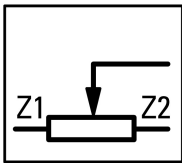




Potentiometer, 4, 7k, front mount

Part no. **M22-R4K7**  
 Catalog No. **229490**  
 Eaton Catalog No. **M22-R4K7Q**  
 EL-Nummer **0004355403**  
 (Norway)

## Delivery program

|                                                                                  |   |    |                                                                                    |
|----------------------------------------------------------------------------------|---|----|------------------------------------------------------------------------------------|
| RMQ design                                                                       |   |    | Classical                                                                          |
|  |   |    |                                                                                    |
| Part group reference (e.g. DIL)                                                  |   |    | M22                                                                                |
| Mounting hole diameter                                                           | Ø | mm | 22.5                                                                               |
| 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: titanium                                                                    |
| Connection to SmartWire-DT                                                       |   |    | no                                                                                 |

## Technical data

### General

|                                      |            |                 |                                                                                |
|--------------------------------------|------------|-----------------|--------------------------------------------------------------------------------|
| Standards                            |            |                 | IEC/EN 60947<br>VDE 0660                                                       |
| Lifespan, mechanical                 | Operations |                 | 25000                                                                          |
| Climatic proofing                    |            |                 | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Degree of Protection                 |            |                 | IP66                                                                           |
| 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 <sup>2</sup> |                                                                                |
| Solid                                |            | mm <sup>2</sup> | 0.5 - 1.5                                                                      |
| Stranded                             |            | mm <sup>2</sup> | 0.5 - 1.5                                                                      |
| Tightening torque for terminal screw |            | Nm              | 0.5                                                                            |

### Contacts

|                                       |                  |      |       |
|---------------------------------------|------------------|------|-------|
| Rated impulse withstand voltage       | U <sub>imp</sub> | V AC | 4000  |
| Rated insulation voltage              | U <sub>i</sub>   | 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 <sub>n</sub>   | A | 0 |
| Heat dissipation per pole, current-dependent             | P <sub>vid</sub> | W | 0 |

|                                                                                                                        |                   |    |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|-------------------|----|----------------------------------------------------------------------------------------------------------------------------------|
| Equipment heat dissipation, current-dependent                                                                          | P <sub>vid</sub>  | W  | 0                                                                                                                                |
| Static heat dissipation, non-current-dependent                                                                         | P <sub>vs</sub>   | W  | 0.5                                                                                                                              |
| Heat dissipation capacity                                                                                              | P <sub>diss</sub> | 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.                         |

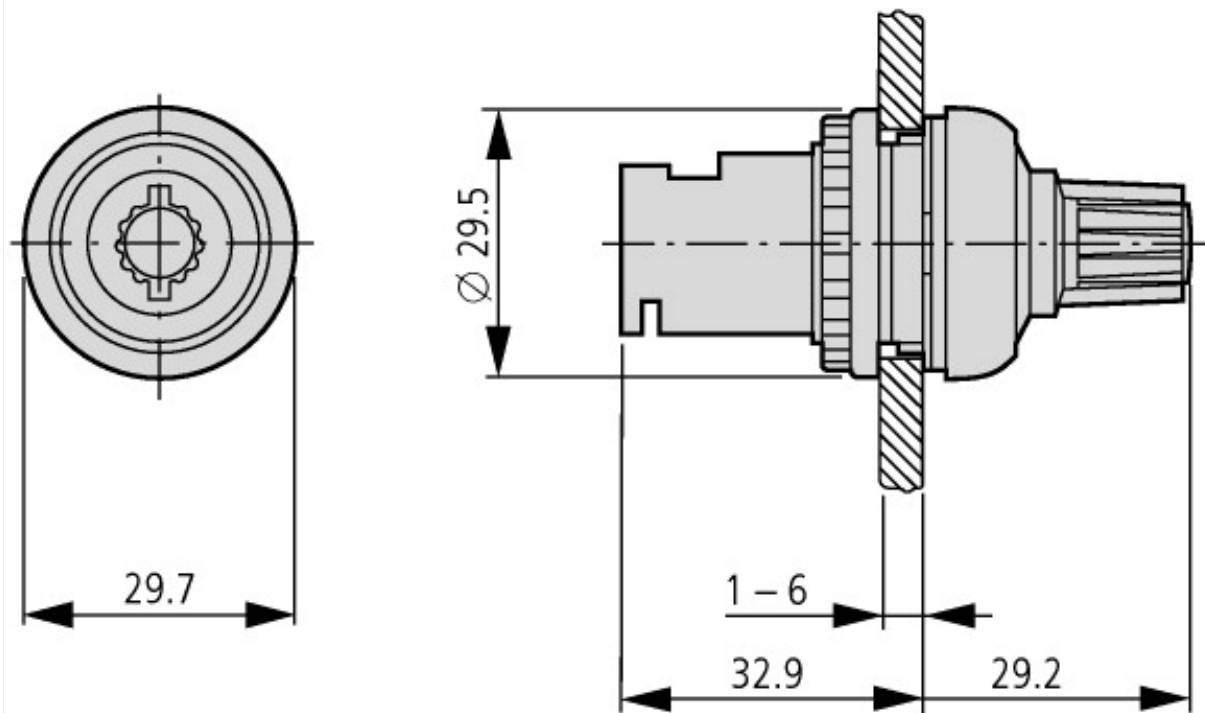
## Technical data ETIM 7.0

|                                                                                                                                                                                                     |  |     |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|------------------|
| 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                                                                                                                                                                                          |  | Ohm | 4700             |
| Power consumption                                                                                                                                                                                   |  | W   | 0.5              |
| Hole diameter                                                                                                                                                                                       |  | mm  | 22               |
| Number of revolutions                                                                                                                                                                               |  |     | 1 - 1            |
| Type of electric connection                                                                                                                                                                         |  |     | Screw connection |
| Degree of protection (IP)                                                                                                                                                                           |  |     | IP66             |
| Degree of protection (NEMA)                                                                                                                                                                         |  |     | 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



## Additional product information (links)

IL04716002Z (AWA1160-1745) RMQ-Titan System

IL04716002Z (AWA1160-1745) RMQ-Titan System

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL04716002Z2018\\_10.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716002Z2018_10.pdf)