

**Joystick, with one operating point per operating direction, With plastic shaft, 2 positions, Bezel: titanium, maintained, Vertical**



**Part no.** M22-WRJ2V  
**Catalog No.** 289240  
**Alternate Catalog No.** M22-WRJ2VQ  
**EL-Nummer (Norway)** 4315312

## Delivery program

|                            |   |    |                                                  |
|----------------------------|---|----|--------------------------------------------------|
| Product range              |   |    | RMQ-Titan                                        |
| Basic function             |   |    | Joystick                                         |
| Mounting hole diameter     | Ø | mm | 22.5                                             |
| Single unit/Complete unit  |   |    | Single unit                                      |
| Description                |   |    | with one operating point per operating direction |
|                            |   |    | With plastic shaft                               |
|                            |   |    | 2 positions                                      |
| Degree of Protection       |   |    | IP65                                             |
| Front ring                 |   |    | Bezel: titanium                                  |
| Connection to SmartWire-DT |   |    | yes<br>with SWD-RMQ connections                  |
| Function                   |   |    | maintained<br>Vertical                           |

## Technical data

### General

|                             |              |                   |                                                                                |
|-----------------------------|--------------|-------------------|--------------------------------------------------------------------------------|
| Standards                   |              |                   | IEC/EN 60947<br>VDE 0660                                                       |
| Lifespan, mechanical        | Operations   | x 10 <sup>6</sup> | > 0.1                                                                          |
| Operating frequency         | Operations/h |                   | ≤ 2000                                                                         |
| Actuating force             |              | n                 | ≤ 5                                                                            |
| Climatic proofing           |              |                   | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Degree of Protection        |              |                   | IP65                                                                           |
| 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        |
| shipping classification     |              |                   | DNV<br>GL<br>LR                                                                |

## 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                                          |
| 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                                                                                                 |  | Not applicable.                                                                                          |
| 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 8.0

Low-voltage industrial components (EG000017) / Control switch, Joystick (EC000632)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch, joystick  
(ecl@ss10.0.1-27-37-14-04 [AKF061013])

|                                                            |    |          |
|------------------------------------------------------------|----|----------|
| Rated operation current I <sub>e</sub> at AC-21, 400 V     | A  | 0        |
| Centre mounting, hole diameter                             | mm | 22.5     |
| Joy stick length                                           | mm | 75       |
| Number of actuation directions                             |    | 2        |
| Number of switch positions                                 |    | 0        |
| Number of normally open contacts per actuation direction   |    | 0        |
| Number of normally closed contacts per actuation direction |    | 0        |
| Number of make-and-break contacts per direction            |    | 0        |
| With retraction in 0-position                              |    | No       |
| Locking in 0-position                                      |    | No       |
| Coder                                                      |    | No       |
| Analogue output signal configurable                        |    | No       |
| With front ring                                            |    | Yes      |
| Material front ring                                        |    | Plastic  |
| Colour front ring                                          |    | Titanium |
| Degree of protection (IP)                                  |    | IP66     |
| Degree of protection (NEMA)                                |    | 4X, 13   |