



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

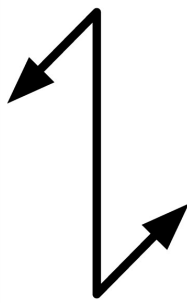


Powering Business Worldwide™



**Part no.** M22-WJ2V  
**Catalog No.** 289196  
**Alternate Catalog No.** M22-WJ2VQ  
**EL-Nummer (Norway)** 4315310

**Delivery program**

|                            |   |    |  |
|----------------------------|---|----|--|
| Product range              |   |    | RMQ-Titan  |
| Basic function             |   |    | Joystick   |
| Mounting hole diameter     | ∅ | mm | 22.5   |
| Single unit/Complete unit  |   |    | Single unit  |
| <b>Function:</b>           |   |    |  |
| Function                   |   |    |  |
| Description                |   |    | with one operating point per operating direction                                   |
|                            |   |    | With plastic shaft   |
|                            |   |    | 2 positions  |
| Degree of Protection       |   |    | IP66   |
| Front ring                 |   |    | Bezel: titanium  |
| Connection to SmartWire-DT |   |    | yes<br>with SWD-RMQ connections  |
| Function                   |   |    | momentary<br>Vertical  |

**Technical data**

|                             |              |                   |  |
|-----------------------------|--------------|-------------------|--|
| <b>General</b>              |              |                   |  |
| 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        |              |                   | 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        |
| 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   | $I_n$      | 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  |
| 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   |            |    |  |
|  |            |    | 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 7.0

| 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<br>(ecl@ss10.0.1-27-37-14-04 [AKF061013]) |  |    |      |
| Rated operation current $I_e$ 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 levels   |  |    | 1    |
| 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                              |  | Yes     |
| Locking in 0-position                                      |  | No      |
| Coder  |  | No      |
| Analogue output signal configurable                        |  | No      |
| With front ring  |  | Yes     |
| Material front ring  |  | Plastic |
| Colour front ring  |  | Chrome  |
| 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

