



Key-operated actuator, 3 positions, momentary, closure according to data



Powering Business Worldwide™



Part no. **M22-WS3-MS\***  
 Catalog No. **216896**  
 Alternate Catalog No. **-**  
 EL-Nummer **4355701**  
 (Norway)

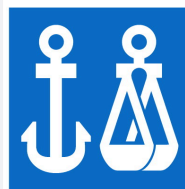
## Delivery program

|                                                                             |   |  |                                                                                                                                                                                      |
|-----------------------------------------------------------------------------|---|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product range                                                               |   |  | RMQ-Titan                                                                                                                                                                            |
| Basic function                                                              |   |  | Key-operated buttons                                                                                                                                                                 |
| Single unit/Complete unit                                                   |   |  | Single unit                                                                                                                                                                          |
| Design                                                                      |   |  | Key operated                                                                                                                                                                         |
|                                                                             |   |  | momentary                                                                                                                                                                            |
| <b>Function:</b>                                                            |   |  |                                                                                                                                                                                      |
|                                                                             |   |  | 40°  40°                                                                                            |
|                                                                             |   |  | Not suitable for master key systems                                                                                                                                                  |
|                                                                             |   |  | 3 positions                                                                                                                                                                          |
| Lock mechanism                                                              |   |  | selectable                                                                                                                                                                           |
| <b>Key withdrawable in position</b>                                         |   |  |                                                                                                                                                                                      |
|                                                                             |   |  | 0                                                                                                                                                                                    |
| Degree of Protection                                                        |   |  | IP66                                                                                                                                                                                 |
| Front ring                                                                  |   |  | Bezel: titanium                                                                                                                                                                      |
| Connection to SmartWire-DT                                                  |   |  | yes<br>with SWD-RMQ connections                                                                                                                                                      |
| <b>Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1</b> |   |  |                                                                                                                                                                                      |
| Minimum force for positive opening                                          | N |  | 0                                                                                                                                                                                    |
| Front dimensions                                                            |   |  | 29,7                                                                                                                                                                                 |
| <b>Instructions</b>                                                         |   |  | Stay-put/spring-return function, can be changed with coding parts M22-XC-Y<br>Key withdraw convertible with coding adapters M22-XC-...<br>with plunger bridge for the middle contact |
| Information about equipment supplied                                        |   |  | With 1 key                                                                                                                                                                           |

## Technical data

### General

|                             |              |                   |                                                                                |
|-----------------------------|--------------|-------------------|--------------------------------------------------------------------------------|
| Standards                   |              |                   | IEC/EN 60947<br>VDE 0660                                                       |
| Lifespan, mechanical        | Operations   | x 10 <sup>6</sup> | > 0.1                                                                          |
| Operating frequency         | Operations/h |                   | ≤ 100                                                                          |
| Operating torque            |              | Nm                | ≤ 0.5                                                                          |
| 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                                                                |



Germanischer Lloyd



## 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

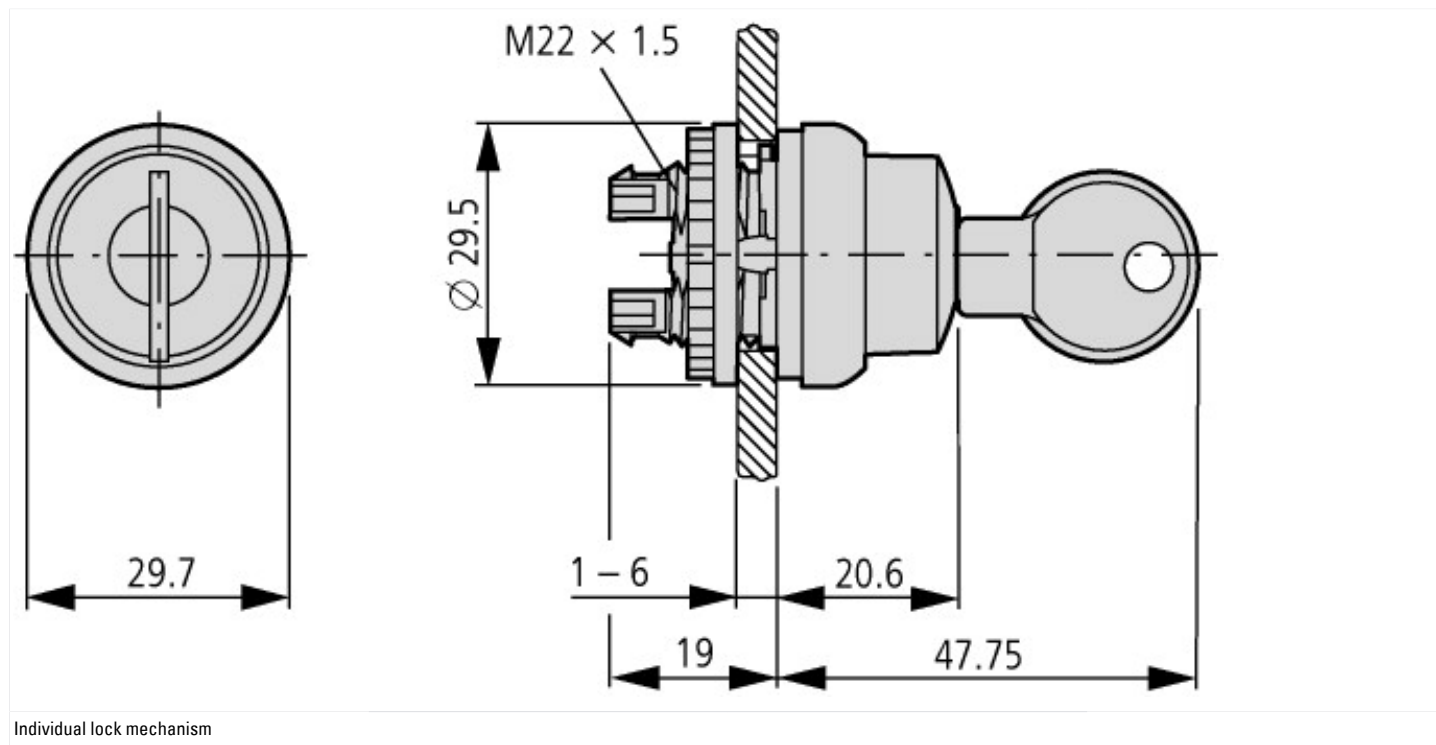
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------|
| Low-voltage industrial components (EG000017) / Front element for selector switch (EC000222)                                                                                                           |  |  |       |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for selector switches (ecl@ss10.0.1-27-37-12-13 [AKF031014]) |  |  |       |
| Number of switch positions                                                                                                                                                                            |  |  | 3     |
| Type of control element                                                                                                                                                                               |  |  | Key   |
| Type of control element                                                                                                                                                                               |  |  | Key   |
| Suitable for illumination                                                                                                                                                                             |  |  | No    |
| Colour control element                                                                                                                                                                                |  |  | Black |
| Colour indicator light cap                                                                                                                                                                            |  |  | Other |

|                                       |    |         |
|---------------------------------------|----|---------|
| Construction type lens                |    | Round   |
| Hole diameter                         | mm | 22.5    |
| Width opening                         | mm | 0       |
| Height opening                        | mm | 0       |
| Switching function latching           |    | No      |
| Spring-return                         |    | Yes     |
| With front ring                       |    | Yes     |
| Material front ring                   |    | Plastic |
| Colour front ring                     |    | Other   |
| Degree of protection (IP), front side |    | 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



## Assets (links)

### Declaration of CE Conformity

00003256