


**Key-operated actuator, 3 positions, black, momentary**

**Part no.** Q18S3  
**Catalog No.** 072313  
**Alternate Catalog No.** Q18S3

**Delivery program**

|                                      |   |    |                                                                                           |
|--------------------------------------|---|----|-------------------------------------------------------------------------------------------|
| Product range                        |   |    | RMQ16                                                                                     |
| Basic function                       |   |    | Key-operated buttons                                                                      |
| Mounting hole diameter               | Ø | mm | 16                                                                                        |
| Single unit/Complete unit            |   |    | Single unit                                                                               |
| Design                               |   |    | Key operated                                                                              |
|                                      |   |    | momentary                                                                                 |
| <b>Function:</b>                     |   |    |                                                                                           |
|                                      |   |    | 45°  45° |
|                                      |   |    | 3 positions                                                                               |
| <b>Key withdrawable in position</b>  |   |    |                                                                                           |
|                                      |   |    | 0                                                                                         |
| Degree of Protection                 |   |    | IP65                                                                                      |
| Front ring                           |   |    | without bezel                                                                             |
| Connection to SmartWire-DT           |   |    | no                                                                                        |
| Information about equipment supplied |   |    | With 1 key                                                                                |

**Technical data**
**General**

|                                    |              |                   |                                                                                |
|------------------------------------|--------------|-------------------|--------------------------------------------------------------------------------|
| Standards                          |              |                   | IEC/EN 60947                                                                   |
| Lifespan, mechanical               | Operations   | x 10 <sup>6</sup> | > 3                                                                            |
| Operating frequency                | Operations/h |                   | ≤ 1800                                                                         |
| Operating torque                   |              | Nm                | ≤ 0.4                                                                          |
| Degree of protection, IEC/EN 60529 |              |                   | IP65                                                                           |
| Climatic proofing                  |              |                   | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature                |              |                   |                                                                                |
| Open                               |              | °C                | -25 - +60                                                                      |
| Enclosed                           |              | °C                | - 25 - 40                                                                      |
| Mounting position                  |              |                   | As required                                                                    |
| Mechanical shock resistance        |              | g                 | > 40<br>according to IEC 60068-2-27<br>Shock duration 11 ms<br>Sinusoidal      |
| Terminal capacities                |              | mm <sup>2</sup>   | 0.5 - 1.0                                                                      |
| Blade terminal                     |              |                   | 2.8 x 0.8 mm to DIN 46244                                                      |
| Fast-on connectors                 |              |                   | 2.8 x 0.8 mm to DIN 46247 and IEC 60760                                        |

**Contacts**

|                                       |                  |                   |                                                                                                     |
|---------------------------------------|------------------|-------------------|-----------------------------------------------------------------------------------------------------|
| Rated impulse withstand voltage       | U <sub>imp</sub> | V AC              | 800                                                                                                 |
| Rated insulation voltage              | U <sub>i</sub>   | V                 | 250                                                                                                 |
| Overvoltage category/pollution degree |                  |                   | III/3                                                                                               |
| Rated operational voltage             | U <sub>e</sub>   | V AC              | 24                                                                                                  |
| Control circuit reliability           |                  |                   |                                                                                                     |
| at 24 V DC/5 mA                       | H <sub>F</sub>   | Fault probability | < 10 <sup>-7</sup> , < 1 failure in 10 <sup>7</sup> operations                                      |
| at 5 V DC/1 mA                        | H <sub>F</sub>   | Fault probability | < 5 x 10 <sup>-6</sup> , < 1 failure in 5 x 10 <sup>6</sup> operations                              |
| Use of insulated ferrule ISH 2,8      |                  |                   | On >24 V AC/DC recommended<br>On >50 V AC or 120 V DC mandatory, also on unoccupied blade terminals |

## 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 | 60                                                                                                       |
| 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) / 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     |
| Suitable for illumination                                                                                                                                                                             |  |    | No      |
| Colour control element                                                                                                                                                                                |  |    | Black   |
| Colour indicator light cap                                                                                                                                                                            |  |    | Other   |
| Construction type lens                                                                                                                                                                                |  |    | Square  |
| Hole diameter                                                                                                                                                                                         |  | mm | 16      |
| 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                                                                                                                                                                                     |  |    | Black   |
| Degree of protection (IP), front side                                                                                                                                                                 |  |    | IP65    |

|                             |  |   |
|-----------------------------|--|---|
| Degree of protection (NEMA) |  | 1 |
|-----------------------------|--|---|

Approvals

|                             |  |                                                         |
|-----------------------------|--|---------------------------------------------------------|
| Product Standards           |  | IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No.                 |  | E29184                                                  |
| UL Category Control No.     |  | NKCR                                                    |
| CSA File No.                |  | 46552                                                   |
| CSA Class No.               |  | 3211-03                                                 |
| North America Certification |  | UL listed, CSA certified                                |
| Degree of Protection        |  | UL/CSA Type 1                                           |

Dimensions

