

Part no. **M22-K02SMC10**
 Catalog No. **121474**
 Alternate Catalog No. **M22-K02SMC10Q**
 EL-Nummer (Norway) **4315253**

Delivery program

| | | | |
|----------------------------|--|--|---|
| Basic function accessories | | | Self-monitoring contact elements |
| Description | | | The N/O is actuated when mounted on the pushbutton. |
| Connection technique | | | Screw terminals |
| Fixing | | | Front fixing |
| Degree of Protection | | | IP20 |
| Connection to SmartWire-DT | | | no |

Contacts

| | | | |
|-----------------------|--|--|--|
| N/O = Normally open | | | 1 N/O |
| N/C = Normally closed | | | 2 NC  |
| Notes | | |  = safety function, by positive opening to IEC/EN 60947-5-1 |

Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1

| | | | |
|------------------------------------|----|--|-----------------|
| | mm | | 4.8 |
| Maximum travel | mm | | 5.7 |
| Minimum force for positive opening | N | | 30 |
| Connection technique | | | Screw terminals |

Technical data

General

| | | | |
|------------------------------------|--|-----------------|--|
| Standards | | | IEC 60947-5-1 |
| Actuating force | | n | ≤ 10 |
| Operating torque (screw terminals) | | Nm | ≤ 0.8 |
| Degree of Protection | | | IP20 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | | |
| Open | | °C | -25 - +70 |
| Terminal capacities | | mm ² | |
| Solid | | mm ² | 0.75 - 2.5 |
| Stranded | | mm ² | 0.5 - 2.5 |
| Flexible with ferrule | | mm ² | 0.5 - 1.5 |

Contacts

| | | | |
|---------------------------------------|------------------|------|-------------------|
| Rated impulse withstand voltage | U _{imp} | V AC | 6000 |
| Rated insulation voltage | U _i | V | 500 |
| Overvoltage category/pollution degree | | | III/3 |
| Max. short-circuit protective device | | | |
| Fuseless | | Type | PKZM0-10/FAZ-B6/1 |
| Fuse | gG/gL | A | 10 |

Switching capacity

| | | | |
|---------------------------|----------------|---|---|
| Rated operational current | I _e | A | |
| AC-15 | | | |
| 115 V | I _e | A | 6 |
| 220 V 230 V 240 V | I _e | A | 6 |

| | | | |
|-------------------|----------------|---|-----|
| 380 V 400 V 415 V | I _e | A | 4 |
| 500 V | I _e | A | 2 |
| DC-13 | | | |
| 24 V | I _e | A | 3 |
| 42 V | I _e | A | 1.7 |
| 60 V | I _e | A | 1.2 |
| 110 V | I _e | A | 0.6 |
| 220 V | I _e | A | 0.3 |

Auxiliary contacts

| | | | |
|---|----------------|----|---|
| Rated conditional short-circuit current | I _q | kA | 1 |
|---|----------------|----|---|

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|-------------------|----|--|
| Rated operational current for specified heat dissipation | I _n | A | 6 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0.11 |
| 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 | | | Meets the product standard's requirements. |
| 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 8.0

| | | | |
|---|--|--|---|
| Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041) | | | |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ec@ss10.0.1-27-37-13-02 [AKN342013]) | | | |
| Number of contacts as change-over contact | | | 0 |
| Number of contacts as normally open contact | | | 1 |
| Number of contacts as normally closed contact | | | 2 |

| | | |
|---|---|------------------|
| Number of fault-signal switches | | 0 |
| Rated operation current I_e at AC-15, 230 V | A | 6 |
| Type of electric connection | | Screw connection |
| Model | | Top mounting |
| Mounting method | | Front fastening |
| Lamp holder | | None |