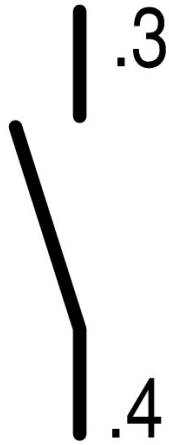
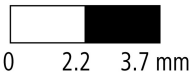
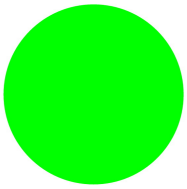
# Contact element, 1N/O, front mount, screw connection

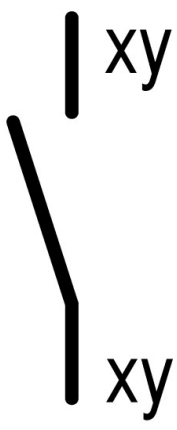
**Part no.** E10
**Article no.** 090351
**Catalog No.** E10

Powering Business Worldwide

## Delivery programme

| | | |
|---|---|---|
| Product range | | RMQ16 (drilling dimensions 16 mm) |
| Basic function | | Accessories |
| Single unit/Complete unit | | Single unit |
| Description | | admissible operating voltage: 5 – 250 V |
| Contacts | | |
| N/O = Normally open | | 1 N/O |
| Contact sequence | |   |
| Contact diagram | |   |
| Colour | | |
| | | green |
| | |  |
| Connection to SmartWire-DT | | no |

Note for table header




x = Sequence number on front element

y = Function number on contact element

## 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 |

## General

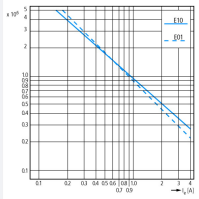
| | | | |
|---|---|---|---|
| Standards | | | IEC/EN 60947 |
| Lifespan, mechanical | Operations | x $10^6$ | > 100 |
| Operating frequency | Operations/h | | 3600 |
| Actuating force | | n | 3 |
| Degree of protection, IEC/EN 60529 | | | IP20 with ISH2,8 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | °C | |
| 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 | | $mm^2$ | 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 | $U_{imp}$ | V AC | 4000 |
| Rated insulation voltage | $U_i$ | V | 250 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated operational voltage | $U_e$ | V AC | 250 |
| Control circuit reliability | | | |
| at 24 V DC/5 mA | $H_F$ | Fault probability | < $10^{-7}$ (i.e. 1 failure to $10^7$ operations) |
| at 5 V DC/1 mA | $H_F$ | Fault probability | < 5 x $10^{-6}$ (i.e. 1 failure in 5 x $10^6$ operations) |
| Use of insulated ferrule ISH 2,8 | | | >24 V AC/DC recommended<br>>50 V AC or 120 V DC is mandatory, even on unused blade terminals |
| Max. short-circuit protective device | | | |
| Fuseless | | Type | FAZ-B6/1 |
| Fuse | gG/gL | A | 10 |

## Switching capacity

| | | | |
|---|---|---|---|
| Rated operational current | $I_e$ | A | |
| AC-15 | | | |
| 24 V | $I_e$ | A | 4 |
| 48 V | $I_e$ | A | 4 |
| 110 V | $I_e$ | A | 4 |
| 220 V 230 V 240 V | $I_e$ | A | 4 |
| DC-13 | | | |
| 24 V | $I_e$ | A | 1.5 |
| 42 V | $I_e$ | A | 1 |
| 60 V | $I_e$ | A | 0.8 |
| 110 V | $I_e$ | A | 0.5 |
| 220 V | $I_e$ | A | 0.2 |

| | | | |
|---|---|---|---|
| Lifespan, electrical AC-15 to IEC/EN 60947-5-1 at 230 V; $I_e$ = rated operational current | | |  |

## Data for design verification according to IEC/EN 61439

| | | | |
|---|---|---|---|
| Technical data for design verification | | | |
| Static heat dissipation, non-current-dependent | $P_{vs}$ | W | 0 |
| Heat dissipation capacity | $P_{diss}$ | W | 0 |
| 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 5.0

| | | | |
|---|---|---|---|
| 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 (ecl@ss8-27-37-13-02 [AKN342009]) | | | |
| Number of contacts as change-over contact | | | 0 |
| Number of contacts as normally open contact | | | 1 |
| Number of contacts as normally closed contact | | | 0 |
| Rated operation current Ie at AC-15, 230 V | | A | 6 |
| Type of electric connection | | | Screw connection |
| Mounting method | | | Front fastening |

## Additional product information (links)

| **IL04716016Z (AWA1160-1429) Mounting of components** | |
|---|---|
| IL04716016Z (AWA1160-1429) Mounting of components | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716016Z2011_03.pdf |