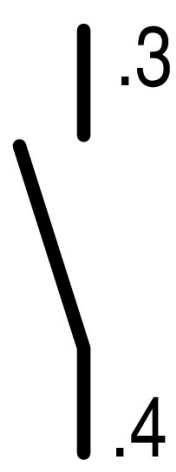

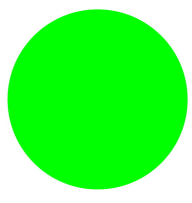




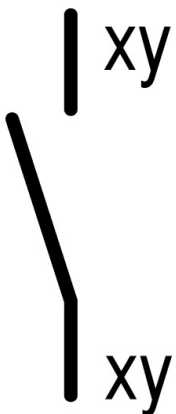
**Contact element, 1N/O, front mount, screw connection**

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

**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  |
| <b>Contacts</b>            |  |  |
| N/O = Normally open        |  | 1 N/O  |
| Contact sequence           |  |   |
| Contact diagram            |  |  |
| <b>Colour</b>              |  |  |
|                            |  | green  |
|                            |  |  |
| Connection to SmartWire-DT |  | no   |



Note for table header



x = Sequence number on front element

## Technical data

### General

|                                    |                 |               |  |
|------------------------------------|-----------------|---------------|--|
| Standards                          |                 |               | IEC/EN 60947   |
| Lifespan, mechanical               | Operations      | $\times 10^6$ | > 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 <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  |

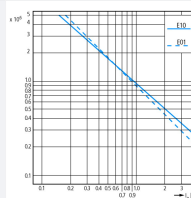
### Contacts

|                                       |           |                   |  |
|---------------------------------------|-----------|-------------------|--|
| Rated impulse withstand voltage       | $U_{imp}$ | 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 | $< 5 \times 10^{-6}$ (i.e. 1 failure in $5 \times 10^6$ 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



## Design verification as per IEC/EN 61439

| Technical data for design verification   |            |    |  |
|--|------------|----|--|
| Rated operational current for specified heat dissipation   | $I_n$      | A  | 4  |
| Heat dissipation per pole, current-dependent   | $P_{vid}$  | W  | 0.1  |
| 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 | 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   |            |    |  |
|  |            |    | 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 6.0

| 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@ss8.1-27-37-13-02 [AKN342010]) |  |   |                  |
| 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 $I_e$ at AC-15, 230 V   |  | A | 6                |
| Type of electric connection   |  |   | Screw connection |
| Mounting method   |  |   | Front fastening  |

## 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                                |

## 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](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716016Z2011_03.pdf)