

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

Part no. E10
Catalog No. 090351
Alternate Catalog No. E10
EL-Nummer (Norway) 4356331

Delivery program

| | | | |
|----------------------------|--|--|---|
| Product range | | | Accessories |
| Single unit/Complete unit | | | Single unit |
| Basic function accessories | | | Contact elements |
| Connection technique | | | Blade terminal |
| Description | | | admissible operating voltage: 5 – 250 V |
| Contacts | | | |
| N/O = Normally open | | | 1 N/O |
| Degree of Protection | | | IP20 with ISH2,8 |
| Connection to SmartWire-DT | | | no |

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 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 according to IEC 60068-2-27 Shock duration 11 ms 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 |
| Rated conditional short-circuit current | I_q | kA | 1 |
| 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 5×10^6 operations) |
| Use of insulated ferrule ISH 2,8 | | | >24 V AC/DC recommended >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 | |
|---------------------------|-------|---|--|

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|-------------------|----------------|---|-----|
| 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 |

Design verification as per IEC/EN 61439

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|--|-------------------|----|--|
| 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 8.0

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| 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 (ecI@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 | | 0 |
| 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 |