# DATASHEET - E10

## Contact element E10, 1 N/O, Front fastening, Blade terminal

**Part no.** E10
090351

**EL Number (Norway)** 4356331

Powering Business Worldwide™

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|---|---|
| **General specifications** | |
| Product name | Eaton Moeller® series E10 Accessory Contact element |
| Part no. | E10 |
| EAN | 4015080903512 |
| Product Length/Depth | 6 millimetre |
| Product height | 29 millimetre |
| Product width | 18 millimetre |
| Product weight | 0.003 kilogram |
| Certifications | CSA<br>CSA-C22.2 No. 14-05<br>UL 508<br>UL<br>IEC/EN 60947-5<br>IEC/EN 60947<br>CE<br>CSA Class No.: 3211-03<br>CSA File No.: 46552<br>UL Category Control No.: NKCR<br>UL File No.: E29184 |
| Product Tradename | E10 |
| Product Type | Accessory |
| Product Sub Type | Contact element |
| Catalog Notes | Use of insulated ferrule ISH 2,8 > 24 V AC/DC recommended<br>Use of insulated ferrule ISH 2,8 > 50 V AC or 120 V DC is mandatory, even on unused blade terminals |
| **Features & Functions** | |
| Electric connection type | Screw connection |
| **General information** | |
| Degree of protection | IP20, with Insulated ferrule ISH2,8 |
| Lifespan, mechanical | 100,000,000 Operations |
| Model | Top mounting |
| Mounting method | Front fastening |
| Operating frequency | 3600 Operations/h |
| Overvoltage category | III |
| Pollution degree | 3 |
| Product category | Accessories |
| Rated impulse withstand voltage (Uimp) | 4000 V AC |
| Terminal capacity | 0.5 - 1.0 $mm^2$ |
| Terminal size | 2.8 x 0.8 mm to DIN 46247 and IEC 60760, Fast-on connectors<br>2.8 x 0.8 mm to DIN 46244, Blade terminal |
| **Ambient conditions, mechanical** | |
| Mounting position | As required |
| Shock resistance | 40 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms<br>Mechanical, According to IEC/EN 60068-2-27 |
| **Climatic environmental conditions** | |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 60 °C |
| Ambient operating temperature (enclosed) - min | -25 °C |
| Ambient operating temperature (enclosed) - max | 40 °C |
| Climatic proofing | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| **Electrical rating** | |
| Rated insulation voltage (Ui) | 250 V |

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| Rated operational current (Ie) | 4 A at AC-15, 110 V<br>4 A at AC-15, 48 V |
| Rated operational current (Ie) at AC-15, 24 V | 4 A |
| Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V | 6 A |
| Rated operational current (Ie) at DC-13, 24 V | 1.5 A |
| Rated operational current (Ie) at DC-13, 42 V | 1 A |
| Rated operational current (Ie) at DC-13, 60 V | 0.8 A |
| Rated operational current (Ie) at DC-13, 110 V | 0.5 A |
| Rated operational current (Ie) at DC-13, 220 V, 230 V | 0.2 A |
| Rated operational voltage (Ue) at AC - max | 250 V |
| Short-circuit protection | FAZ-B6/1, Fuseless |
| Short-circuit protection rating | Max. 10 A gG/gL, Fuse, Contacts |
| **Actuator** | |
| Actuating force - max | 3 N |
| **Contacts** | |
| Control circuit reliability | 1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA)<br>1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA) |
| Number of contacts (change-over contacts) | 0 |
| Number of contacts (normally closed contacts) | 0 |
| Number of contacts (normally open contacts) | 1 |
| **Communication** | |
| Connection to SmartWire-DT | No |
| Connection type | Blade terminal |
| **Design verification** | |
| Equipment heat dissipation, current-dependent Pvid | 0 W |
| Heat dissipation capacity Pdiss | 0 W |
| Heat dissipation per pole, current-dependent Pvid | 0.1 W |
| Rated operational current for specified heat dissipation (In) | 4 A |
| Static heat dissipation, non-current-dependent Pvs | 0 W |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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. |
| 10.9.2 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 9.0

| 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@ss13-27-37-13-02 [AKN342018]) | | | |
| 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 Ie at AC-15, 230 V | | A | 6 |
| Type of electric connection | | | Screw connection |
| Model | | | Clip-on |
| Mounting method | | | Front fastening |
| Lamp holder | | | None |