

Contact element M22, 1 N/C, 1 N/CL, Front fastening, Cage Clamp, Single contact, Front fixing

Part no. M22-CK01D
262510
EL Number 4355768
(Norway)

| General specifications | |
|---|--|
| Product name | Eaton Moeller® series M22 Accessory Contact element |
| Part no. | M22-CK01D |
| EAN | 4015082625108 |
| Product Length/Depth | 38 millimetre |
| Product height | 10 millimetre |
| Product width | 32 millimetre |
| Product weight | 0.01 kilogram |
| Certifications | UL 508 CSA Class No.: 3211-03 UL Category Control No.: NKCR UL File No.: E29184 CSA-C22.2 No. 94-91 CSA CSA-C22.2 No. 14-05 CSA File No.: 012528 CE IEC 60947-5-1 UL IEC/EN 60947-5 |
| Product Tradename | M22 |
| Product Type | Accessory |
| Product Sub Type | Contact element |
| Catalog Notes | Contacts with safety function, by positive opening to IEC/EN 60947-5-1 |
| Features & Functions | |
| Electric connection type | Spring clamp connection |
| General information | |
| Degree of protection | IP20 |
| Lifespan, electrical | 1,000,000 Operations (at 230 V, AC-15, 1 A) 700,000 Operations (at 230 V, AC-15, 3 A) 1,200,000 Operations (at 12 V, DC-13, 2.8 A) 1,600,000 Operations (at 230 V, 0.5 A) |
| Lifespan, mechanical | 5,000,000 Operations |
| Model | Top mounting |
| Mounting method | Front fastening |
| Operating frequency | 3600 Operations/h |
| Overvoltage category | III |
| Pollution degree | 3 |
| Rated impulse withstand voltage (Uimp) | 6000 V AC |
| Ambient conditions, mechanical | |
| Shock resistance | 30 g, Mechanical, according to IEC/EN 60068-2-27, Shock duration 11 ms |
| Climatic environmental conditions | |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 70 °C |
| Climatic proofing | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Terminal capacities | |
| Terminal capacity (flexible with ferrule) | 0.5 - 1.5 mm ² |
| Terminal capacity (solid) | 0.75 - 2.5 mm ² |
| Terminal capacity (stranded) | 0.5 - 2.5 mm ² |
| Electrical rating | |
| Rated insulation voltage (Ui) | 500 V |

| | | |
|--|--|--|
| Rated operational current (Ie) at AC-15, 115 V | | 6 A |
| Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V | | 6 A |
| Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V | | 4 A |
| Rated operational current (Ie) at AC-15, 500 V | | 2 A |
| Rated operational current (Ie) at DC-13, 110 V | | 0.8 A |
| Rated operational current (Ie) at DC-13, 220 V, 230 V | | 0.3 A |
| Rated operational current (Ie) at DC-13, 24 V | | 3 A |
| Rated operational current (Ie) at DC-13, 42 V | | 1.7 A |
| Rated operational current (Ie) at DC-13, 60 V | | 1.2 A |
| Short-circuit rating | | |
| Rated conditional short-circuit current (Iq) | | 1 kA |
| Short-circuit protection | | PKZM0-10/FAZ-B6/1, Contacts, Max. short-circuit protective device, Fuseless |
| Short-circuit protection rating | | Max. 10 A gG/gL, Fuse, Contacts |
| Communication | | |
| Connection to SmartWire-DT | | No |
| Connection type | | Single contact Front fixing Cage Clamp |
| Actuator | | |
| Actuating force - max | | 5 N |
| Actuator travel and actuation force (DIN EN 60947-5-1) | | 4.8 mm |
| Knob travel | | 5.7 mm |
| Contacts | | |
| Control circuit reliability | | 1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA) 1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA) |
| Force for positive opening - min | | 15 N |
| Number of contacts (change-over contacts) | | 0 |
| Number of contacts (normally closed contacts) | | 1 |
| Number of contacts (normally open contacts) | | 0 |
| Design verification | | |
| Equipment heat dissipation, current-dependent Pvid | | 0 W |
| Heat dissipation capacity Pdis | | 0 W |
| Heat dissipation per pole, current-dependent Pvid | | 0.11 W |
| Rated operational current for specified heat dissipation (In) | | 6 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 | | | 0 |
| Number of contacts as normally closed contact | | | 1 |
| Number of fault-signal switches | | | 0 |
| Rated operation current I _e at AC-15, 230 V | | A | 6 |
| Type of electric connection | | | Spring clamp connection |
| Model | | | Clip-on |
| Mounting method | | | Front fastening |
| Lamp holder | | | None |