# Specifications








## Eaton 216380

Eaton Moeller® series M22 Contact element, Make contact, Bottom, Screw terminals, Base fixing, 1 N/O, 24 V 3 A, 220 V 230 V 240 V 6 A

| General specifications | |
|---|---|
| **PRODUCT NAME** | Eaton Moeller® series M22 contact element |
| **CATALOG NUMBER** | 216380 |
| **MODEL CODE** | M22-KC10 |
| **EAN** | 4015082163808 |
| **PRODUCT LENGTH/DEPTH** | 38 mm |
| **PRODUCT HEIGHT** | 10 mm |
| **PRODUCT WIDTH** | 32 mm |
| **PRODUCT WEIGHT** | 0.01 kg |
| **COMPLIANCES** | CE Marked |
| **CERTIFICATIONS** | EN 60947-5<br>UL 508<br>CSA Std. C22.2 No. 14-05<br>IEC 60947-5<br>CSA Std. C22.2 No. 94-91<br>VDE<br>IEC/EN 60947-5<br>UL Category Control No.: NKCR<br>CSA<br>UL<br>CSA Class No.: 3211-03<br>CSA File No.: 012528<br>UL File No.: E29184<br>CSA-C22.2 No. 14-05<br>CE<br>CSA-C22.2 No. 94-91<br>IEC 60947-5-1 |

## Actuator

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| **ACTUATING FORCE - MAX** | 5 N |

## Climatic environmental conditions

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| **AMBIENT OPERATING TEMPERATURE - MAX** | 70 °C |
| **AMBIENT STORAGE TEMPERATURE - MAX** | 85 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **AMBIENT STORAGE TEMPERATURE - MIN** | -25 °C |
| **CLIMATIC PROOFING** | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |

## Communication

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| **CONNECTION TO SMARTWIRE-DT** | No |

## Contacts

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| **CONTROL CIRCUIT RELIABILITY** | 1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA)<br>1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA) |
| **FORCE FOR POSITIVE OPENING - MIN** | 0 N |
| **NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)** | 0 |
| **NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)** | 0 |
| **NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)** | 1 |

## Design verification

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| **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. |
| **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. |

## Electrical rating

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| **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** | 0.6 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, 500 V** | 0.1 A |
| **RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V** | 1.2 A |

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| **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. |
| **EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID** | 0 W |
| **HEAT DISSIPATION CAPACITY PDISS** | 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 |

## Features & functions

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| **COLOR** | Green |
| **ELECTRIC CONNECTION TYPE** | Screw connection |

## General information

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| **DEGREE OF PROTECTION** | IP20 |
| **LIFESPAN, ELECTRICAL** | 1,200,000 Operations (at 12 V, DC-13, 2.8 A)<br>1,000,000 Operations (at 230 V, AC-15, 1 A)<br>1,600,000 Operations (at 230 V, 0.5 A)<br>700,000 Operations (at 230 V, AC-15, 3 A) |
| **LIFESPAN, MECHANICAL** | 5,000,000 Operations |
| **MODEL** | Top mounting |
| **OPERATING FREQUENCY** | 3600 Operations/h |
| **OPERATING TORQUE** | 0.8 Nm |
| **OVERVOLTAGE CATEGORY** | III |
| **POLLUTION DEGREE** | 3 |
| **RATED IMPULSE WITHSTAND VOLTAGE (UIMP)** | 6000 V AC |

## Mounting details

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| **CONNECTION TYPE** | Base fixing<br>Single contact<br>Screw connection |
| **MOUNTING METHOD** | Base |

## Short-circuit rating

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|---|---|
| **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 |

## Terminal capacities

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| **TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)** | 0.5 - 1.5 mm² |
| **TERMINAL CAPACITY (SOLID)** | 0.75 - 2.5 mm² |
| **TERMINAL CAPACITY (STRANDED)** | 0.5 - 2.5 mm² |

## Resources

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|---|---|
| **CATALOGUES** | eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf |
| **CONTROL TRAVEL DIAGRAM** | eaton-operating-diagram-m22-contact-element-contact-travel-diagram-007.eps |
| **DECLARATIONS OF CONFORMITY** | eaton-assembled-contact-element-and-mounting-adapter-declaration-of-conformity-eu260061en.pdf<br><br>eaton-contact-element-declaration-of-conformity-uk260062en.pdf |
| **DRAWINGS** | eaton-operating-pushbutton-m22-dimensions-003.eps<br><br>eaton-operating-contact-m22-contact-element-3d-drawing-003.eps<br><br>eaton-operating-adapter-m22-contact-element-flow-diagram-003.eps |
| **ECAD MODEL** | ETN.216380.edz |
| **INSTALLATION INSTRUCTIONS** | IL04716002Z |
| **MCAD MODEL** | eaton-cont-blocks-mcad-drawings-kontakt-schraube-boden.dwg<br><br>DA-CS-kontaktelement_schraube_boden |
| **PEP ECO-PASSPORT** | eaton-operating-devices-rmq-titan-m22-il047018zu.pdf<br><br>eaton-contact-blocks-pep-eato-00317-v0101-en.pdf |
| **WIRING DIAGRAMS** | eaton-operating-contact-m22-contact-element-wiring-diagram-002.eps |

| | |
|---|---|
| **PROJECT NAME:** | |
| **PROJECT NUMBER:** | |
| **PREPARED BY:** | |
| **DATE:** | |

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