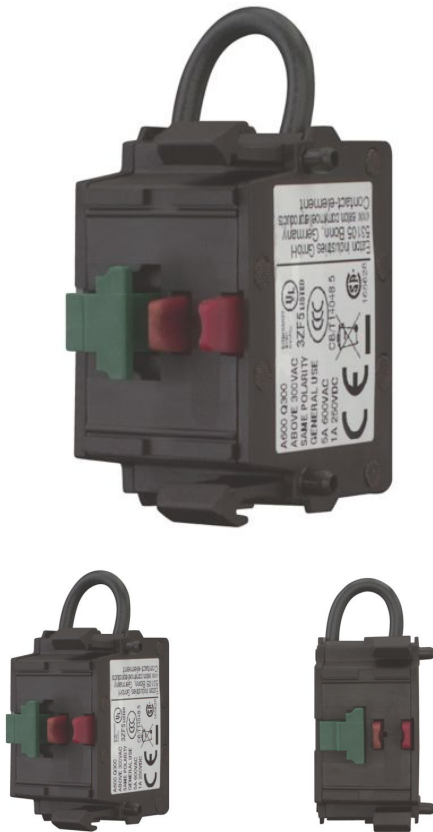


# Specifications



## Eaton 121472

Eaton Moeller® series M22 Self-monitoring contact elements, Screw terminals, Front fixing, 1 N/O, 1 NC, 24 V 3 A

### General specifications

|                             |                                                                                                                                                                                                                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series M22 Accessory Contact element                                                                                                                                                                                                                                                            |
| <b>CATALOG NUMBER</b>       | 121472                                                                                                                                                                                                                                                                                                         |
| <b>MODEL CODE</b>           | M22-K01SMC10                                                                                                                                                                                                                                                                                                   |
| <b>EAN</b>                  | 4015081192908                                                                                                                                                                                                                                                                                                  |
| <b>PRODUCT LENGTH/DEPTH</b> | 35 mm                                                                                                                                                                                                                                                                                                          |
| <b>PRODUCT HEIGHT</b>       | 51 mm                                                                                                                                                                                                                                                                                                          |
| <b>PRODUCT WIDTH</b>        | 23 mm                                                                                                                                                                                                                                                                                                          |
| <b>PRODUCT WEIGHT</b>       | 0.021 kg                                                                                                                                                                                                                                                                                                       |
| <b>COMPLIANCES</b>          | CE Marked                                                                                                                                                                                                                                                                                                      |
| <b>CERTIFICATIONS</b>       | UL 508<br>CSA Std. C22.2 No. 14-05<br>EN 60947-5<br>CSA Std. C22.2 No. 94-91<br>IEC 60947<br>CSA Class No.: 3211-03<br>IEC 60947-5-1<br>CSA File No.: 012528_C_000<br>IEC/EN 60947-5<br>UL<br>UL Category Control No.: NISD<br>CSA-C22.2 No. 14-05<br>CSA-C22.2 No. 94-91<br>CE<br>UL File No.: E340491<br>CSA |
| <b>CATALOG NOTES</b>        | Contacts with safety function, by positive opening to IEC/EN 60947-5-1                                                                                                                                                                                                                                         |
| <b>GLOBAL CATALOG</b>       | 121472                                                                                                                                                                                                                                                                                                         |

## Product specifications

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.10 TEMPERATURE RISE</b>                                                           | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                                                       | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.                                                                                       |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Meets the product standard's requirements.                                                                                       |
| <b>10.2.5 LIFTING</b>                                                                   | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.6 MECHANICAL IMPACT</b>                                                         | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.7 INSCRIPTIONS</b>                                                              | Meets the product standard's requirements.                                                                                       |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                                          | Does not apply, since the entire switchgear needs to be evaluated.                                                               |

## Resources

|                                   |                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CATALOGS</b>                   | <a href="#">eaton-rmq-titan-brochure-br047004en-en-us.pdf</a><br><br><a href="#">Flip catalog - Product Range Catalog - Command and indication</a><br><br><a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf</a>                                                                                                      |
| <b>CERTIFICATION REPORTS</b>      | <a href="#">000Z425</a>                                                                                                                                                                                                                                                                                                                                                 |
| <b>CONTROL TRAVEL DIAGRAM</b>     | <a href="#">eaton-operating-diagram-m22-contact-element-contact-travel-diagram-009.eps</a>                                                                                                                                                                                                                                                                              |
| <b>DECLARATIONS OF CONFORMITY</b> | <a href="#">eaton-accessory-declaration-of-conformity-eu250868en.pdf</a><br><br><a href="#">eaton-operating-actuation-m22-led-element-dimensions.eps</a><br><br><a href="#">eaton-general-standards-000Z425.jpg</a><br><br><a href="#">eaton-operating-m22-contact-element-3d-drawing-002.eps</a><br><br><a href="#">eaton-operating-m22-contact-element-symbol.eps</a> |
| <b>DRAWINGS</b>                   |                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ECAD MODEL</b>                 | <a href="#">ETN.121472.edz</a>                                                                                                                                                                                                                                                                                                                                          |
| <b>FLYERS</b>                     | <a href="#">eaton-rmq-titan-selection-aid-brochure-fl047002-en-us.pdf</a>                                                                                                                                                                                                                                                                                               |
| <b>INSTALLATION INSTRUCTIONS</b>  | <a href="#">IL04716002Z</a> <a href="#">IL04716005Z.pdf</a>                                                                                                                                                                                                                                                                                                             |
| <b>INSTALLATION VIDEOS</b>        | <a href="#">RMQ Flat Design</a>                                                                                                                                                                                                                                                                                                                                         |
| <b>MCAD MODEL</b>                 | <a href="#">kontaktelement_safety_front</a><br><a href="#">kontaktelement_safety_front.stp</a>                                                                                                                                                                                                                                                                          |
| <b>MULTIMEDIA</b>                 | <a href="#">MCI Multicolor Light Indicator M22 with SmartWire-DT</a><br><br><a href="#">easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator</a><br><br><a href="#">RMQ small E-Stop emergency-stop button</a><br><br><a href="#">MCI MultiColor Light Indicator RMQ compact solution</a>                                                 |

|                                                                 |                                                                                |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                   | Meets the product standard's requirements.                                     |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                   | Does not apply, since the entire switchgear needs to be evaluated.             |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>   | Does not apply, since the entire switchgear needs to be evaluated.             |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>        | Is the panel builder's responsibility.                                         |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.                                         |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Is the panel builder's responsibility.                                         |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | Is the panel builder's responsibility.                                         |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Is the panel builder's responsibility.                                         |
| <b>ELECTRIC CONNECTION TYPE</b>                                 | Screw connection                                                               |
| <b>POLLUTION DEGREE</b>                                         | 3                                                                              |
| <b>CLIMATIC PROOFING</b>                                        | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |
| <b>ACTUATING FORCE - MAX</b>                                    | 5 N                                                                            |
| <b>ACTUATOR TRAVEL AND ACTUATION FORCE (DIN EN 60947-5-1)</b>   | 4.8 mm                                                                         |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                      | 70 °C                                                                          |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                      | -25 °C                                                                         |
| <b>AMBIENT STORAGE TEMPERATURE - MAX</b>                        | 85 °C                                                                          |
| <b>AMBIENT STORAGE TEMPERATURE - MIN</b>                        | -25 °C                                                                         |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>       | 0 W                                                                            |
| <b>FORCE FOR POSITIVE OPENING - MIN</b>                         | 15 N                                                                           |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                          | 0 W                                                                            |
| <b>HEAT DISSIPATION PER</b>                                     | 0.11 W                                                                         |

|                        |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| <b>SALES NOTES</b>     | <a href="#">eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf</a>         |
|                        | <a href="#">eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf</a> |
|                        | <a href="#">eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf</a>                    |
|                        | <a href="#">eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf</a>                  |
| <b>WIRING DIAGRAMS</b> | <a href="#">eaton-operating-m22-contact-element-wiring-diagram.eps</a>               |

|                                                           |                                                                                   |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>POLE, CURRENT-DEPENDENT PVID</b>                       |                                                                                   |
| <b>KNOB TRAVEL</b>                                        | 5.7 mm                                                                            |
| <b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b>          | 0                                                                                 |
| <b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b>      | 1                                                                                 |
| <b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>        | 1                                                                                 |
| <b>NUMBER OF SWITCHES (FAULT SIGNAL)</b>                  | 0                                                                                 |
| <b>CONNECTION TO SMARTWIRE-DT</b>                         | No                                                                                |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>             | 6000 V AC                                                                         |
| <b>CONTACT CONFIGURATION</b>                              | 1 NO, 1 NC                                                                        |
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>       | 1 kA                                                                              |
| <b>CONNECTION TYPE</b>                                    | Front fixing<br>Screw connection                                                  |
| <b>MOUNTING METHOD</b>                                    | Front fastening                                                                   |
| <b>OVERVOLTAGE CATEGORY</b>                               | III                                                                               |
| <b>DEGREE OF PROTECTION</b>                               | IP20                                                                              |
| <b>MODEL</b>                                              | Top mounting                                                                      |
| <b>LAMP HOLDER</b>                                        | None                                                                              |
| <b>TERMINAL CAPACITY (STRANDED)</b>                       | 0.5 - 2.5 mm <sup>2</sup>                                                         |
| <b>SHORT-CIRCUIT PROTECTION</b>                           | PKZM0-10/FAZ-B6/1,<br>Contacts, Max. short-circuit protective device,<br>Fuseless |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b> | 0 W                                                                               |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 500 V</b>     | 0.1 A                                                                             |
| <b>SHORT-CIRCUIT PROTECTION RATING</b>                    | Max. 10 A gG/gL, Fuse,<br>Contacts                                                |
| <b>RATED INSULATION</b>                                   | 500 V                                                                             |

|                                                                      |                            |
|----------------------------------------------------------------------|----------------------------|
| <b>VOLTAGE (UI)</b>                                                  |                            |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 115 V</b>                | 6 A                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V</b>  | 6 A                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V</b>  | 4 A                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V</b>                | 2 A                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V</b>                | 0.6 A                      |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V</b>         | 0.3 A                      |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V</b>                 | 3 A                        |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 42 V</b>                 | 1.7 A                      |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V</b>                 | 1.2 A                      |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 6 A                        |
| <b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>                     | 0.5 - 1.5 mm <sup>2</sup>  |
| <b>TERMINAL CAPACITY (SOLID)</b>                                     | 0.75 - 2.5 mm <sup>2</sup> |

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



**Eaton Corporation plc**  
Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

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