

# Specifications



## Eaton 173028

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

### General specifications

|                             |                                                                                                                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series M22 contact element                                                                                                                                                                                   |
| <b>CATALOG NUMBER</b>       | 173028                                                                                                                                                                                                                      |
| <b>MODEL CODE</b>           | M22-KC03SMC10                                                                                                                                                                                                               |
| <b>EAN</b>                  | 4015081696192                                                                                                                                                                                                               |
| <b>PRODUCT LENGTH/DEPTH</b> | 40.2 mm                                                                                                                                                                                                                     |
| <b>PRODUCT HEIGHT</b>       | 34 mm                                                                                                                                                                                                                       |
| <b>PRODUCT WIDTH</b>        | 47 mm                                                                                                                                                                                                                       |
| <b>PRODUCT WEIGHT</b>       | 0.044 kg                                                                                                                                                                                                                    |
| <b>CERTIFICATIONS</b>       | UL<br>UL File No.: E340491<br>CSA<br>CSA-C22.2 No. 14-05<br>IEC 60947-5-1<br>CE<br>IEC/EN 60947-5<br>CSA Class No.: 3211-03<br>CSA File No.: 012528_C_000<br>CSA-C22.2 No. 94-91<br>UL 508<br>UL Category Control No.: NISD |
| <b>CATALOG NOTES</b>        | Contacts with safety function, by positive opening to IEC/EN 60947-5-1                                                                                                                                                      |



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## Actuator

|                              |        |
|------------------------------|--------|
| <b>ACTUATING FORCE - MAX</b> | 15 N   |
| <b>KNOB TRAVEL</b>           | 5.7 mm |

## Communication

|                                   |    |
|-----------------------------------|----|
| <b>CONNECTION TO SMARTWIRE-DT</b> | No |
|-----------------------------------|----|

## Climatic environmental conditions

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

## Contacts

|                                                      |      |
|------------------------------------------------------|------|
| <b>FORCE FOR POSITIVE OPENING - MIN</b>              | 45 N |
| <b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b>     | 0    |
| <b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 3    |
| <b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>   | 1    |

## Design verification

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <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.                                                               |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                                           | Meets the product standard's requirements.                                                                                       |
| <b>10.5 PROTECTION</b>                                                                  | Does not apply, since the                                                                                                        |

## Electrical rating

|                                                                     |       |
|---------------------------------------------------------------------|-------|
| <b>RATED INSULATION VOLTAGE (UI)</b>                                | 500 V |
| <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, 500 V</b>               | 0.1 A |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V</b>                | 1.2 A |

|                                                                      |                                                                    |
|----------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>AGAINST ELECTRIC SHOCK</b>                                        | 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>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>            | 0 W                                                                |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                               | 0 W                                                                |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>             | 0.11 W                                                             |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 6 A                                                                |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0 W                                                                |

## Features & functions

|                                 |                  |
|---------------------------------|------------------|
| <b>ELECTRIC CONNECTION TYPE</b> | Screw connection |
|---------------------------------|------------------|

## Mounting details

|                        |             |
|------------------------|-------------|
| <b>CONNECTION TYPE</b> | Base fixing |
| <b>MOUNTING METHOD</b> | Base        |

## General information

|                                               |              |
|-----------------------------------------------|--------------|
| <b>DEGREE OF PROTECTION</b>                   | IP20         |
| <b>MODEL</b>                                  | Top mounting |
| <b>OPERATING TORQUE</b>                       | 0.8 Nm       |
| <b>OVERVOLTAGE CATEGORY</b>                   | III          |
| <b>POLLUTION DEGREE</b>                       | 3            |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 6000 V AC    |

## Short-circuit rating

|                                                     |      |
|-----------------------------------------------------|------|
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b> | 1 kA |
|-----------------------------------------------------|------|

## Terminal capacities

|                                                          |                           |
|----------------------------------------------------------|---------------------------|
| <b>TERMINAL CAPACITY<br/>(FLEXIBLE WITH<br/>FERRULE)</b> | 0.5 - 1.5 mm <sup>2</sup> |
|----------------------------------------------------------|---------------------------|

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>TERMINAL CAPACITY<br/>(SOLID)</b> | 0.75 - 2.5 mm <sup>2</sup> |
|--------------------------------------|----------------------------|

|                                         |                           |
|-----------------------------------------|---------------------------|
| <b>TERMINAL CAPACITY<br/>(STRANDED)</b> | 0.5 - 2.5 mm <sup>2</sup> |
|-----------------------------------------|---------------------------|

## 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

## Resources

### CATALOGUES

[eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf](#)

### CERTIFICATION REPORTS

[000Z425](#)

### CONTROL TRAVEL DIAGRAM

[eaton-operating-diagram-m22-contact-element-contact-travel-diagram-009.eps](#)

### DECLARATIONS OF CONFORMITY

[eaton-assembled-contact-element-and-mounting-adapter-declaration-of-conformity-eu260061en.pdf](#)

[eaton-contact-element-declaration-of-conformity-uk260062en.pdf](#)

### DRAWINGS

[eaton-operating-m22-contact-element-3d-drawing-003.eps](#)

[eaton-general-standards-000Z425.jpg](#)

### ECAD MODEL

[DA-CE-ETN.M22-KC03SMC10](#)

### INSTALLATION INSTRUCTIONS

[IL04716005Z.pdf](#)

[IL04716002Z](#)

### WIRING DIAGRAMS

[eaton-operating-m22-contact-element-wiring-diagram-003.eps](#)

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



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