



**Contact element, Cage Clamp, Front fixing, 1 N/O, 24 V 3 A, 220 V 230 V 240 V 6 A**

**Part no. M22-CK10**

**216384**

**EL Number  
(Norway)**

**4355460**

| <b>General specifications</b>          |  |   |
|--|--|---|
| Product name                           |  | Eaton Moeller® series M22 Accessory Contact element   |
| Part no.                               |  | M22-CK10  |
| EAN                                    |  | 4015082163846   |
| Product Length/Depth                   |  | 38 millimetre   |
| Product height                         |  | 10 millimetre   |
| Product width                          |  | 32 millimetre   |
| Product weight                         |  | 0.01 kilogram   |
| Compliances                            |  | CE Marked   |
| Certifications                         |  | UL Category Control No.: NKCR<br>UL File No.: E29184<br>CSA-C22.2 No. 94-91<br>CSA-C22.2 No. 14-05<br>IEC<br>CSA<br>UL<br>UL/CSA<br>CSA Class No.: 3211-03<br>CE<br>IEC 60947-5-1<br>IEC/EN 60947-5<br>CSA File No.: 012528<br>EN 60947-5<br>UL 508<br>IEC 60947-5<br>CSA Std. C22.2 No. 14-05<br>CSA Std. C22.2 No. 94-91  |
| Product Tradename                      |  | M22   |
| Product Type                           |  | Accessory   |
| Product Sub Type                       |  | Contact element   |
| <b>Features &amp; Functions</b>        |  |   |
| Color                                  |  | Green   |
| Electric connection type               |  | Spring clamp connection   |
| <b>General information</b>             |  |   |
| Degree of protection                   |  | IP20  |
| Lifespan, electrical                   |  | 1,000,000 Operations (at 230 V, AC-15, 1 A)<br>1,200,000 Operations (at 12 V, DC-13, 2.8 A)<br>700,000 Operations (at 230 V, AC-15, 3 A)<br>1,600,000 Operations (at 230 V, 0.5 A)  |
| Lifespan, mechanical                   |  | 5,000,000 Operations  |
| Model                                  |  | Top mounting and integrable   |
| Mounting method                        |  | Front fastening   |
| Operating frequency                    |  | 3600 Operations/h   |
| Overvoltage category                   |  | III   |
| Pollution degree                       |  | 3   |
| Product category                       |  | Accessories   |
| Rated impulse withstand voltage (Uimp) |  | 6000 V AC   |
| Type                                   |  | Auxiliary contact   |
| Used with                              |  | Can be used with NZM3, 4 circuit-breaker: up to three standard auxiliary contacts can be clipped into the circuit-breaker.<br>Can be used with NZM1, 2, 3 circuit-breaker: a trip-indicating auxiliary contact can be clipped into the circuit-breaker.<br>Can be used with NZM4 circuit-breaker: up to two standard auxiliary contacts can be clipped into the circuit-breaker.<br>Can be used with NZM2 size circuit-breaker: a standard auxiliary contact can be clipped into the circuit-breaker.<br>Can be used with NZM1 circuit-breaker: a standard auxiliary contact can be clipped into the circuit-breaker. |
| <b>Ambient conditions, mechanical</b>  |  |   |

|   |  |  |
|---|--|--|
| Shock resistance  |  | 30 g, Mechanical, according to IEC/EN 60068-2-27, Shock duration 11 ms   |
| <b>Climatic environmental conditions</b>  |  |  |
| Ambient operating temperature - min   |  | -25 °C   |
| Ambient operating temperature - max   |  | 70 °C  |
| Ambient storage temperature - min   |  | -25 °C   |
| Ambient storage temperature - max   |  | 85 °C  |
| Climatic proofing   |  | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30   |
| <b>Terminal capacities</b>  |  |  |
| Terminal capacity (flexible with ferrule)   |  | 0.5 - 1.5 mm <sup>2</sup>  |
| Terminal capacity (solid)   |  | 0.75 - 2.5 mm <sup>2</sup>   |
| Terminal capacity (solid/flexible with ferrule)                                     |  | 2 x (0,5 - 0,75) mm <sup>2</sup><br>1 x (0,75 - 2,5) mm <sup>2</sup>   |
| Terminal capacity (stranded)  |  | 0.5 - 2.5 mm <sup>2</sup>  |
| <b>Electrical rating</b>  |  |  |
| Conventional thermal current (I <sub>t</sub> ) of auxiliary contacts (1-pole, open) |  | 4 A  |
| Rated insulation voltage (U <sub>i</sub> )  |  | 500 V  |
| Rated operational current (I <sub>e</sub> ) at AC-15, 115 V                         |  | 6 A  |
| Rated operational current (I <sub>e</sub> ) at AC-15, 220 V, 230 V, 240 V           |  | 6 A  |
| Rated operational current (I <sub>e</sub> ) at AC-15, 380 V, 400 V, 415 V           |  | 4 A  |
| Rated operational current (I <sub>e</sub> ) at AC-15, 500 V                         |  | 2 A  |
| Rated operational current (I <sub>e</sub> ) at DC-13, 24 V                          |  | 3 A  |
| Rated operational current (I <sub>e</sub> ) at DC-13, 42 V                          |  | 1.7 A  |
| Rated operational current (I <sub>e</sub> ) at DC-13, 60 V                          |  | 1.2 A  |
| Rated operational current (I <sub>e</sub> ) at DC-13, 110 V                         |  | 0.6 A  |
| Rated operational current (I <sub>e</sub> ) at DC-13, 220 V, 230 V                  |  | 0.3 A  |
| Rated operational current (I <sub>e</sub> ) at DC-13, 500 V                         |  | 0.1 A  |
| Rated operational voltage (U <sub>e</sub> ) at AC - max                             |  | 500 V  |
| Rated operational voltage (U <sub>e</sub> ) at DC - max                             |  | 220 V  |
| <b>Short-circuit rating</b>   |  |  |
| 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, Auxiliary contacts<br>Max. 10 A gG/gL, Fuse, Contacts   |
| <b>Communication</b>  |  |  |
| Connection to SmartWire-DT  |  | No   |
| Connection type   |  | Cage Clamp<br>Single contact<br>Front fixing   |
| <b>Actuator</b>   |  |  |
| Actuating force - max   |  | 5 N  |
| <b>Contacts</b>   |  |  |
| 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) |
| 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  |
| <b>Design verification</b>  |  |  |
| Equipment heat dissipation, current-dependent P <sub>vid</sub>                      |  | 0 W  |
| Heat dissipation capacity P <sub>diss</sub>   |  | 0 W  |
| Heat dissipation per pole, current-dependent P <sub>vid</sub>                       |  | 0.11 W   |
| Rated operational current for specified heat dissipation (I <sub>n</sub> )          |  | 6 A  |
| Static heat dissipation, non-current-dependent P <sub>vs</sub>                      |  | 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 I <sub>e</sub> at AC-15, 230 V   |  | A | 6                           |
| Type of electric connection  |  |   | Spring clamp connection     |
| Model  |  |   | Top mounting and integrable |
| Mounting method  |  |   | Front fastening             |
| Lamp holder  |  |   | None                        |