

**ON-OFF switches, T0, 20 A, flush mounting, 1 contact unit(s), Contacts: 1, 45 °, maintained, With 0 (Off) position, 0-1, Design number 15071**



Powering Business Worldwide™

**Part no. T0-1-15071/E  
009128**

| <b>General specifications</b>            |  |   |
|--|--|---|
| Product name                             |  | Eaton Moeller® series T0 On-Off switch  |
| Part no.                                 |  | T0-1-15071/E  |
| EAN                                      |  | 4015080091288   |
| Product Length/Depth                     |  | 76 millimetre   |
| Product height                           |  | 48 millimetre   |
| Product width                            |  | 48 millimetre   |
| Product weight                           |  | 0.083 kilogram  |
| Certifications                           |  | CSA-C22.2 No. 60947-4-1-14<br>UL 60947-4-1<br>IEC/EN 60947-3<br>IEC/EN 60204<br>CSA-C22.2 No. 94<br>CE<br>UL Category Control No.: NLRV<br>CSA Class No.: 3211-05<br>CSA<br>UL<br>IEC/EN 60947<br>VDE 0660<br>UL File No.: E36332<br>CSA File No.: 012528 |
| Product Tradename                        |  | T0  |
| Product Type                             |  | On-Off switch   |
| Product Sub Type                         |  | None  |
| Catalog Notes                            |  | Rated Short-time Withstand Current (Icw) for a time of 1 second   |
| <b>Features &amp; Functions</b>          |  |   |
| Fitted with:                             |  | Black thumb grip and front plate<br>0 (off) position  |
| Inscription                              |  | 0-1   |
| Number of poles                          |  | Single-pole   |
| <b>General information</b>               |  |   |
| Degree of protection                     |  | NEMA 12<br>NEMA 1<br>IP65   |
| Degree of protection (front side)        |  | IP65<br>NEMA 12   |
| Lifespan, mechanical                     |  | 400,000 Operations  |
| Mounting method                          |  | Flush mounting  |
| Mounting position                        |  | As required   |
| Number of contact units                  |  | 1   |
| Operating frequency                      |  | 1200 Operations/h   |
| Overvoltage category                     |  | III   |
| Pollution degree                         |  | 3   |
| Product category                         |  | Control switches  |
| Rated impulse withstand voltage (Uimp)   |  | 6000 V AC   |
| Safe isolation                           |  | 440 V AC, Between the contacts, According to EN 61140   |
| Safety parameter (EN ISO 13849-1)        |  | B10d values as per EN ISO 13849-1, table C.1  |
| Shock resistance                         |  | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms   |
| Suitable for                             |  | Branch circuits, suitable as motor disconnect, (UL/CSA)<br>Front mounting   |
| Switching angle                          |  | 45 °  |
| Type                                     |  | ON-OFF switch   |
| <b>Climatic environmental conditions</b> |  |   |
| Ambient operating temperature - min      |  | -25 °C  |

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| Ambient operating temperature - max                                    | 50 °C  |
| Ambient operating temperature (enclosed) - min                         | -25 °C   |
| Ambient operating temperature (enclosed) - max                         | 40 °C  |
| Climatic proofing  | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78                                       |
| <b>Terminal capacities</b>   |  |
| Terminal capacity (flexible with ferrule)                              | 1 x (0.75 - 2.5) mm <sup>2</sup> , ferrules to DIN 46228<br>2 x (0.75 - 2.5) mm <sup>2</sup> , ferrules to DIN 46228 |
| Terminal capacity (solid/flexible with ferrule AWG)                    | 18 - 14  |
| Terminal capacity (solid/stranded)                                     | 2 x (1 - 2.5) mm <sup>2</sup><br>1 x (1 - 2.5) mm <sup>2</sup>   |
| Screw size   | M3.5, Terminal screw   |
| Tightening torque  | 8.8 lb-in, Screw terminals<br>1 Nm, Screw terminals  |
| <b>Electrical rating</b>   |  |
| Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)          | 100 A  |
| Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)          | 110 A  |
| Rated breaking capacity at 500 V (cos phi to IEC 60947-3)              | 80 A   |
| Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)          | 60 A   |
| Rated operating voltage (Ue) at AC - max                               | 690 V  |
| Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V            | 11.5 A   |
| Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V            | 11.5 A   |
| Rated operational current (Ie) at AC-3, 500 V                          | 9 A  |
| Rated operational current (Ie) at AC-3, 660 V, 690 V                   | 4.9 A  |
| Rated operational current (Ie) at AC-21, 440 V                         | 20 A   |
| Rated operational current (Ie) at AC-23A, 230 V                        | 13.3 A   |
| Rated operational current (Ie) at AC-23A, 400 V, 415 V                 | 13.3 A   |
| Rated operational current (Ie) at AC-23A, 500 V                        | 13.3 A   |
| Rated operational current (Ie) at AC-23A, 690 V                        | 7.6 A  |
| Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms | 10 A   |
| Rated operational current (Ie) at DC-13, control switches L/R = 50 ms  | 10 A   |
| Rated operational current (Ie) at DC-21, 240 V                         | 1 A  |
| Rated operational current (Ie) at DC-23A, 24 V                         | 10 A   |
| Rated operational current (Ie) at DC-23A, 48 V                         | 10 A   |
| Rated operational current (Ie) at DC-23A, 60 V                         | 10 A   |
| Rated operational current (Ie) at DC-23A, 120 V                        | 5 A  |
| Rated operational current (Ie) at DC-23A, 240 V                        | 5 A  |
| Rated operational current (Ie) star-delta at AC-3, 230 V               | 20 A   |
| Rated operational current (Ie) star-delta at AC-3, 400 V               | 20 A   |
| Rated operational current (Ie) star-delta at AC-3, 500 V               | 15.6 A   |
| Rated operational current (Ie) star-delta at AC-3, 690 V               | 8.5 A  |
| Rated operational power at AC-3, 415 V, 50 Hz                          | 5.5 kW   |
| Rated operational power at AC-3, 500 V, 50 Hz                          | 5.5 kW   |
| Rated operational power at AC-3, 690 V, 50 Hz                          | 4 kW   |
| Rated operational power at AC-23A, 220/230 V, 50 Hz                    | 3 kW   |
| Rated operational power at AC-23A, 400 V, 50 Hz                        | 5.5 kW   |
| Rated operational power at AC-23A, 500 V, 50 Hz                        | 7.5 kW   |
| Rated operational power at AC-23A, 690 V, 50 Hz                        | 5.5 kW   |
| Rated operational power star-delta at 220/230 V, 50 Hz                 | 5.5 kW   |
| Rated operational power star-delta at 380/400 V, 50 Hz                 | 7.5 kW   |
| Rated operational power star-delta at 500 V, 50 Hz                     | 7.5 kW   |
| Rated operational power star-delta at 690 V, 50 Hz                     | 5.5 kW   |
| Rated uninterrupted current (Iu)                                       | 20 A   |
| Uninterrupted current  | Rated uninterrupted current Iu is specified for max. cross-section.  |
| <b>Short-circuit rating</b>  |  |
| Rated conditional short-circuit current (Iq)                           | 6 kA   |

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| Rated short-time withstand current (I <sub>cw</sub> )                            |  | 320 A, Contacts, 1 second   |
| Short-circuit current rating (basic rating)                                      |  | 5 kA, SCCR (UL/CSA)<br>50A, max. Fuse, SCCR (UL/CSA)  |
| Short-circuit current rating (high fault)  |  | 20 A, Class J, max. Fuse, SCCR (UL/CSA)<br>10 kA, SCCR (UL/CSA)   |
| Short-circuit protection rating  |  | 20 A gG/gL, Fuse, Contacts  |
| <b>Switching capacity</b>  |  |   |
| Load rating  |  | 1.6 x I <sub>#</sub> (with intermittent operation class 12, 40 % duty factor)<br>2 x I <sub>#</sub> (with intermittent operation class 12, 25 % duty factor)<br>1.3 x I <sub>#</sub> (with intermittent operation class 12, 60 % duty factor) |
| Number of contacts in series at DC-21A, 240 V                                    |  | 1   |
| Number of contacts in series at DC-23A, 24 V                                     |  | 1   |
| Number of contacts in series at DC-23A, 48 V                                     |  | 2   |
| Number of contacts in series at DC-23A, 60 V                                     |  | 3   |
| Number of contacts in series at DC-23A, 120 V                                    |  | 3   |
| Number of contacts in series at DC-23A, 240 V                                    |  | 5   |
| Switching capacity (main contacts, general use)                                  |  | 16 A, Rated uninterrupted current max. (UL/CSA)   |
| Switching capacity (auxiliary contacts, general use)                             |  | 10A, IU, (UL/CSA)   |
| Switching capacity (auxiliary contacts, pilot duty)                              |  | P300 (UL/CSA)<br>A600 (UL/CSA)  |
| Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)                    |  | 130 A   |
| Voltage per contact pair in series   |  | 60 V  |
| <b>Motor rating</b>  |  |   |
| Assigned motor power at 115/120 V, 60 Hz, 1-phase                                |  | 0.5 HP  |
| Assigned motor power at 200/208 V, 60 Hz, 1-phase                                |  | 1 HP  |
| Assigned motor power at 200/208 V, 60 Hz, 3-phase                                |  | 3 HP  |
| Assigned motor power at 230/240 V, 60 Hz, 1-phase                                |  | 1.5 HP  |
| Assigned motor power at 230/240 V, 60 Hz, 3-phase                                |  | 3 HP  |
| Assigned motor power at 460/480 V, 60 Hz, 3-phase                                |  | 7.5 HP  |
| Assigned motor power at 575/600 V, 60 Hz, 3-phase                                |  | 7.5 HP  |
| <b>Contacts</b>  |  |   |
| Control circuit reliability  |  | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)   |
| Number of contacts   |  | 1   |
| <b>Actuator</b>  |  |   |
| Actuator function  |  | With 0 (Off) position<br>Maintained   |
| Actuator type  |  | Toggle  |
| Number of switch positions   |  | 2   |
| <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>                    |  | 0.6 W   |
| Rated operational current for specified heat dissipation (I <sub>n</sub> )       |  | 20 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                                 |  | UV resistance only in connection with protective shield.  |
| 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.  |

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| 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

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| Low-voltage industrial components (EG000017) / Control switch (EC002611)   |   |                 |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss13-27-37-14-14 [ACN998016]) |   |                 |
| Type of switch   |   | On/Off switch   |
| Number of poles  |   | 1               |
| Max. rated operation voltage Ue AC   | V | 690             |
| Rated permanent current Iu   | A | 20              |
| Number of switch positions   |   | 2               |
| With zero (off) position   |   | Yes             |
| With retraction in 0-position  |   | No              |
| Device construction  |   | Built-in device |
| Width in number of modular spacings  |   | 0               |
| Suitable for floor mounting  |   | No              |
| Suitable for front mounting  |   | Yes             |
| Suitable for distribution board installation   |   | No              |
| Suitable for intermediate mounting   |   | No              |
| Complete device in housing   |   | No              |
| Type of control element  |   | Toggle          |
| Front shield size  |   | 48x48 mm        |
| Degree of protection (IP), front side  |   | IP65            |
| Degree of protection (NEMA), front side  |   | 12              |