

On-Off switch, 6 pole + 1 N/O + 1 N/C, 32 A, 90 °, surface mounting

**Part no.** T3-4-15682/I2  
 207190

| General specifications                         |   |
|--|---|
| Product name                                   | Eaton Moeller® series T3 On-Off switch  |
| Part no.                                       | T3-4-15682/I2   |
| EAN  | 4015082071905   |
| Product Length/Depth                           | 181 millimetre  |
| Product height                                 | 127 millimetre  |
| Product width                                  | 100 millimetre  |
| Product weight                                 | 0.594 kilogram  |
| Certifications                                 | CSA-C22.2 No. 94<br>CSA<br>UL 60947-4-1<br>VDE 0660<br>CSA File No.: 012528<br>UL File No.: E36332<br>IEC/EN 60204<br>UL<br>CSA-C22.2 No. 60947-4-1-14<br>CSA Class No.: 3211-07<br>UL Category Control No.: NLRV<br>CE<br>IEC/EN 60947-3<br>IEC/EN 60947 |
| Product Tradename                              | T3  |
| Product Type                                   | On-Off switch   |
| Product Sub Type                               | None  |
| Catalog Notes                                  | Rated Short-time Withstand Current (Icw) for a time of 1 second   |
| Features & Functions                           |   |
| Fitted with:                                   | Black thumb grip and front plate  |
| Inscription                                    | 0-1   |
| Number of poles                                | 6   |
| General information                            |   |
| Degree of protection                           | NEMA 12   |
| Degree of protection (front side)              | IP65  |
| Lifespan, mechanical                           | 500,000 Operations  |
| Mounting method                                | Surface mounting  |
| Mounting position                              | As required   |
| Number of contact units                        | 4   |
| Operating frequency                            | 1200 Operations/h   |
| Overvoltage category                           | III   |
| Pollution degree                               | 3   |
| 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                               | 12 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms   |
| Suitable for                                   | Ground mounting<br>Branch circuits, suitable as motor disconnect, (UL/CSA)  |
| Switching angle                                | 90 °  |
| Climatic environmental conditions              |   |
| Ambient operating temperature - min            | -25 °C  |
| Ambient operating temperature - max            | 40 °C   |
| Ambient operating temperature (enclosed) - min | -25 °C  |
| Ambient operating temperature (enclosed) - max | 40 °C   |
| Climatic proofing                              | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30  |

## Terminal capacities

|                   |   |
|-------------------|---|
| Terminal capacity | 14 - 10 AWG, solid or flexible with ferrule<br>1 x (1 - 6) mm <sup>2</sup> , solid or stranded<br>2 x (0.75 - 4) mm <sup>2</sup> , flexible with ferrules to DIN 46228<br>2 x (1 - 6) mm <sup>2</sup> , solid or stranded<br>1 x (0.75 - 4) mm <sup>2</sup> , flexible with ferrules to DIN 46228 |
| Screw size        | M4, Terminal screw  |
| Tightening torque | 1.6 Nm, Screw terminals<br>17.7 lb-in, Screw terminals  |

## Electrical rating

|  |   |
|--|---|
| Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)          | 260 A   |
| Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)          | 260 A   |
| Rated breaking capacity at 500 V (cos phi to IEC 60947-3)              | 240 A   |
| Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)          | 170 A   |
| Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V            | 23.7 A  |
| Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V            | 23.7 A  |
| Rated operational current (Ie) at AC-3, 500 V                          | 23.7 A  |
| Rated operational current (Ie) at AC-3, 660 V, 690 V                   | 14.7 A  |
| Rated operational current (Ie) at AC-21, 440 V                         | 32 A  |
| Rated operational current (Ie) at AC-23A, 230 V                        | 32 A  |
| Rated operational current (Ie) at AC-23A, 400 V, 415 V                 | 32 A  |
| Rated operational current (Ie) at AC-23A, 500 V                        | 26.4 A  |
| Rated operational current (Ie) at AC-23A, 690 V                        | 17 A  |
| Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms | 25 A  |
| Rated operational current (Ie) at DC-13, control switches L/R = 50 ms  | 20 A  |
| Rated operational current (Ie) at DC-21, 240 V                         | 1 A   |
| Rated operational current (Ie) at DC-23A, 24 V                         | 25 A  |
| Rated operational current (Ie) at DC-23A, 48 V                         | 25 A  |
| Rated operational current (Ie) at DC-23A, 60 V                         | 25 A  |
| Rated operational current (Ie) at DC-23A, 120 V                        | 12 A  |
| Rated operational current (Ie) at DC-23A, 240 V                        | 5 A   |
| Rated operational current (Ie) star-delta at AC-3, 220/230 V           | 32 A  |
| Rated operational current (Ie) star-delta at AC-3, 380/400 V           | 32 A  |
| Rated operational current (Ie) star-delta at AC-3, 500 V               | 32 A  |
| Rated operational current (Ie) star-delta at AC-3, 690 V               | 25.5 A  |
| Rated operational power at AC-3, 380/400 V, 50 Hz                      | 11 kW   |
| Rated operational power at AC-3, 415 V, 50 Hz                          | 11 kW   |
| Rated operational power at AC-3, 500 V, 50 Hz                          | 15 kW   |
| Rated operational power at AC-3, 690 V, 50 Hz                          | 11 kW   |
| Rated operational power at AC-23A, 220/230 V, 50 Hz                    | 7.5 kW  |
| Rated operational power at AC-23A, 400 V, 50 Hz                        | 15 kW   |
| Rated operational power at AC-23A, 500 V, 50 Hz                        | 15 kW   |
| Rated operational power at AC-23A, 690 V, 50 Hz                        | 15 kW   |
| Rated operational power star-delta at 220/230 V, 50 Hz                 | 7.5 kW  |
| Rated operational power star-delta at 380/400 V, 50 Hz                 | 15 kW   |
| Rated operational power star-delta at 500 V, 50 Hz                     | 18.5 kW   |
| Rated operational power star-delta at 690 V, 50 Hz                     | 22 kW   |
| Rated uninterrupted current (Iu)                                       | 32 A  |
| Uninterrupted current  | Rated uninterrupted current Iu is specified for max. cross-section. |
| <b>Short-circuit rating</b>  |   |
| Rated conditional short-circuit current (Iq)                           | 1 kA  |
| Rated short-time withstand current (Icw)                               | 650 A, Contacts, 1 second<br>0.65 kA                                |
| Short-circuit current rating (basic rating)                            | 5 kA, SCCR (UL/CSA)<br>40A, max. Fuse, SCCR (UL/CSA)                |
| Short-circuit current rating (high fault)                              | 10 kA, SCCR (UL/CSA)<br>40 A, Class J, max. Fuse, SCCR (UL/CSA)     |
| Short-circuit protection rating  | 35 A gG/gL, Fuse, Contacts  |

| <b>Switching capacity</b>  |  |   |
|--|--|---|
| Load rating  |  | 1.6 x I# (with intermittent operation class 12, 40 % duty factor)<br>1.3 x I# (with intermittent operation class 12, 60 % duty factor)<br>2 x I# (with intermittent operation class 12, 25 % 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)                                  |  | 25 A, Rated uninterrupted current max. (UL/CSA)   |
| Switching capacity (auxiliary contacts, general use)                             |  | 10A, IU, (UL/CSA)   |
| Switching capacity (auxiliary contacts, pilot duty)                              |  | A600 (UL/CSA)<br>P600 (UL/CSA)  |
| Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)                    |  | 320 A   |
| Voltage per contact pair in series   |  | 60 V  |
| <b>Motor rating</b>  |  |   |
| Assigned motor power at 115/120 V, 60 Hz, 1-phase                                |  | 1.5 HP  |
| Assigned motor power at 200/208 V, 60 Hz, 1-phase                                |  | 3 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                                |  | 3 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                                |  | 10 HP   |
| <b>Contacts</b>  |  |   |
| Control circuit reliability  |  | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)   |
| Number of auxiliary contacts (change-over contacts)                              |  | 0   |
| Number of auxiliary contacts (normally closed contacts)                          |  | 1   |
| Number of auxiliary contacts (normally open contacts)                            |  | 1   |
| <b>Actuator</b>  |  |   |
| Actuator color   |  | Black   |
| Actuator function  |  | Maintained  |
| Actuator type  |  | Short thumb-grip  |
| <b>Design verification</b>   |  |   |
| Equipment heat dissipation, current-dependent Pvid                               |  | 1.1 W   |
| Heat dissipation capacity Pdis   |  | 0 W   |
| Heat dissipation per pole, current-dependent Pvid                                |  | 1.1 W   |
| Rated operational current for specified heat dissipation (In)                    |  | 32 A  |
| Static heat dissipation, non-current-dependent Pvs                               |  | 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.  |
| 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.  |

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| 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 8.0

|   |    |  |                            |
|---|----|--|----------------------------|
| Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)   |    |  |                            |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ec!@ss10.0.1-27-37-14-03 [AKF060013]) |    |  |                            |
| Version as main switch  |    |  | No                         |
| Version as maintenance-/service switch  |    |  | No                         |
| Version as safety switch  |    |  | No                         |
| Version as emergency stop installation  |    |  | No                         |
| Version as reversing switch   |    |  | No                         |
| Number of switches  |    |  | 1                          |
| Max. rated operation voltage U <sub>e</sub> AC  | V  |  | 690                        |
| Rated operating voltage   | V  |  | 690 - 690                  |
| Rated permanent current I <sub>u</sub>  | A  |  | 32                         |
| Rated permanent current at AC-23, 400 V   | A  |  | 32                         |
| Rated permanent current at AC-21, 400 V   | A  |  | 32                         |
| Rated operation power at AC-3, 400 V  | kW |  | 11                         |
| Rated short-time withstand current I <sub>cw</sub>  | kA |  | 0.65                       |
| Rated operation power at AC-23, 400 V   | kW |  | 15                         |
| Switching power at 400 V  | kW |  | 15                         |
| Conditioned rated short-circuit current I <sub>q</sub>  | kA |  | 1                          |
| Number of poles   |    |  | 6                          |
| Number of auxiliary contacts as normally closed contact   |    |  | 1                          |
| Number of auxiliary contacts as normally open contact   |    |  | 1                          |
| Number of auxiliary contacts as change-over contact   |    |  | 0                          |
| Motor drive optional  |    |  | No                         |
| Motor drive integrated  |    |  | No                         |
| Voltage release optional  |    |  | No                         |
| Device construction   |    |  | Complete device in housing |
| Suitable for floor mounting   |    |  | Yes                        |
| Suitable for front mounting 4-hole  |    |  | No                         |
| Suitable for front mounting centre  |    |  | No                         |
| Suitable for distribution board installation  |    |  | No                         |
| Suitable for intermediate mounting  |    |  | No                         |
| Colour control element  |    |  | Black                      |
| Type of control element   |    |  | Short thumb-grip           |
| Interlockable   |    |  | No                         |
| Type of electrical connection of main circuit   |    |  | Screw connection           |
| Degree of protection (IP), front side   |    |  | IP65                       |
| Degree of protection (NEMA)   |    |  | 12                         |