

Changeover switches, T0, 20 A, surface mounting, 2 contact unit(s),  
 Contacts: 4, With spring-return from START, 45 °, momentary/maintained,  
 AUTO-0-HAND<START, Design number 15907

Part no. T0-2-15907/I1  
 207095

| General specifications                         |  |
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| Product name                                   | Eaton Moeller® series T0 Changeover switch                                     |
| Part no.                                       | T0-2-15907/I1  |
| EAN  | 4015082070953  |
| Product Length/Depth                           | 137 millimetre   |
| Product height                                 | 102 millimetre   |
| Product width                                  | 80 millimetre  |
| Product weight                                 | 0.264 kilogram   |
| Certifications                                 | VDE 0660<br>IEC/EN 60947-3<br>IEC/EN 60204<br>IEC/EN 60947                     |
| Product Tradename                              | T0   |
| Product Type                                   | Changeover switch  |
| Product Sub Type                               | None   |
| Catalog Notes                                  | Rated Short-time Withstand Current (Icw) for a time of 1 second                |
| Features & Functions                           |  |
| Features                                       | Complete device in housing   |
| Fitted with:                                   | 0 (off) position<br>Black thumb grip and front plate                           |
| Inscription                                    | " AUTO-0-HAND<START "  |
| Number of poles                                | Zero-pole  |
| General information                            |  |
| Degree of protection                           | IP65   |
| Degree of protection (front side)              | IP65<br>NEMA 12  |
| Lifespan, mechanical                           | 400,000 Operations   |
| Mounting method                                | Surface mounting   |
| Mounting position                              | As required  |
| Number of contact units                        | 2  |
| 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                                   | Ground mounting  |
| Switching angle                                | 45 °   |
| Type   | Changeover switch  |
| 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, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |
| Terminal capacities                            |  |

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| 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/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  | 1 Nm, Screw terminals<br>8.8 lb-in, 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  |
| Rated short-time withstand current (Icw)                               | 320 A, Contacts, 1 second   |
| Short-circuit protection rating  | 20 A gG/gL, Fuse, Contacts  |
| <b>Switching capacity</b>  |   |
| Load rating  | 1.3 x I# (with intermittent operation class 12, 60 % duty factor)<br>2 x I# (with intermittent operation class 12, 25 % duty factor)<br>1.6 x I# (with intermittent operation class 12, 40 % duty factor) |
| Number of contacts in series at DC-21A, 240 V                          | 1   |
| Number of contacts in series at DC-23A, 24 V                           | 1   |

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| 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  |
| 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>Contacts</b>  |  |  |
| Control circuit reliability  |  | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)  |
| Number of contacts   |  | 4  |
| <b>Actuator</b>  |  |  |
| Actuator function  |  | Maintained/momentary<br>With 0 (Off) position<br>Spring-return from START<br>Spring-return to MANUAL                             |
| Actuator type  |  | Toggle   |
| Number of switch positions   |  | 4  |
| <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.   |
| 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   |   | Reverser |
| Number of poles  |   | 0        |
| Max. rated operation voltage U <sub>e</sub> AC   | V | 690      |
| Rated permanent current I <sub>u</sub>   | A | 20       |
| Number of switch positions   |   | 4        |

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| With zero (off) position                     |  | Yes                    |
| With retraction in 0-position                |  | No                     |
| Device construction                          |  | Surface mounted device |
| Width in number of modular spacings          |  | 0                      |
| Suitable for floor mounting                  |  | Yes                    |
| Suitable for front mounting                  |  | No                     |
| Suitable for distribution board installation |  | No                     |
| Suitable for intermediate mounting           |  | No                     |
| Complete device in housing                   |  | Yes                    |
| Type of control element                      |  | Toggle                 |
| Front shield size                            |  | 48x48 mm               |
| Degree of protection (IP), front side        |  | IP65                   |
| Degree of protection (NEMA), front side      |  | 12                     |