

# Specifications

Photo is representative

## Eaton 207132

Eaton Moeller® series T0 Reversing switches, T0, 20 A, surface mounting, 3 contact unit(s), Contacts: 5, 60 °, maintained, With 0 (Off) position, 1-0-2, Design number 8401

### General specifications

|                      |   |
|----------------------|---|
| PRODUCT NAME         | Eaton Moeller® series T0 Reversing switch                       |
| CATALOG NUMBER       | 207132  |
| MODEL CODE           | T0-3-8401/I1  |
| EAN                  | 4015082071325   |
| PRODUCT LENGTH/DEPTH | 137 mm  |
| PRODUCT HEIGHT       | 122 mm  |
| PRODUCT WIDTH        | 80 mm   |
| PRODUCT WEIGHT       | 0.288 kg  |
| CERTIFICATIONS       | VDE 0660<br>IEC/EN 60947-3<br>IEC/EN 60947<br>IEC/EN 60204      |
| CATALOG NOTES        | Rated Short-time Withstand Current (Icw) for a time of 1 second |



### Product specifications

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|----------------------------|--|
| TYPE                       | Reversing switch   |
| PRODUCT CATEGORY           | Control switches   |
| FEATURES                   | Complete device in housing   |
| ACTUATOR FUNCTION          | With 0 (Off) position<br>Maintained  |
| 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                      | Is the panel builder's   |

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| <b>ELECTROMAGNETIC COMPATIBILITY</b>  | 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>                                 | UV resistance only in connection with protective shield.   |
| <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 AGAINST ELECTRIC SHOCK</b>   | Does not apply, since the 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>FITTED WITH:</b>   | 0 (off) position<br>Black thumb grip and front plate   |
| <b>OPERATING FREQUENCY</b>  | 1200 Operations/h  |

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| <b>POLLUTION DEGREE</b>  | 3   |
| <b>CLIMATIC PROOFING</b>                                       | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30          |
| <b>ENCLOSURE MATERIAL</b>                                      | Plastic   |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                  | 6000 V AC   |
| <b>ACTUATOR TYPE</b>   | Short thumb-grip  |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                     | 40 °C   |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                     | -25 °C  |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>          | 40 °C   |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>          | -25 °C  |
| <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>       | 0.6 W   |
| <b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>     | 0   |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 0   |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>   | 0   |
| <b>NUMBER OF CONTACT UNITS</b>                                 | 3   |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>                | 320 A, Contacts, 1 second   |
| <b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>              | Screw connection  |
| <b>MOUNTING POSITION</b>                                       | As required   |
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>            | 6 kA  |
| <b>MOUNTING METHOD</b>   | Surface mounting  |
| <b>OVERVOLTAGE CATEGORY</b>                                    | III   |
| <b>CONTROL CIRCUIT RELIABILITY</b>                             | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA) |
| <b>NUMBER OF POLES</b>   | 3   |
| <b>DEGREE OF</b>   | IP65  |

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| <b>PROTECTION</b>  |   |
| <b>NUMBER OF CONTACTS</b>  | 5   |
| <b>MODEL</b>   | Reversing switch  |
| <b>DEGREE OF PROTECTION (FRONT SIDE)</b>                             | IP65<br>NEMA 12   |
| <b>INSCRIPTION</b>   | 1-0-2   |
| <b>LIFESPAN, MECHANICAL</b>  | 400,000 Operations  |
| <b>SAFE ISOLATION</b>  | 440 V AC, Between the contacts, According to EN 61140<br><br>8.5 A at AC-3, 690 V star-delta  |
| <b>RATED OPERATIONAL CURRENT (IE)</b>                                | 20 A at AC-3, 230 V star-delta<br>15.6 A at AC-3, 500 V star-delta<br>20 A at AC-3, 400 V star-delta  |
| <b>SCREW SIZE</b>  | M3.5, Terminal screw  |
| <b>SHOCK RESISTANCE</b>  | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms   |
| <b>LOAD RATING</b>   | 1.3 x I <sub>e</sub> (with intermittent operation class 12, 60 % duty factor)<br>1.6 x I <sub>e</sub> (with intermittent operation class 12, 40 % duty factor)<br>2 x I <sub>e</sub> (with intermittent operation class 12, 25 % duty factor) |
| <b>TIGHTENING TORQUE</b>   | 1 Nm, Screw terminals<br>8.8 lb-in, Screw terminals   |
| <b>NUMBER OF CONTACTS IN SERIES AT DC-21A, 240 V</b>                 | 1   |
| <b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V</b>                 | 3   |
| <b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V</b>                  | 1   |
| <b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 240 V</b>                 | 5   |
| <b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V</b>                  | 2   |
| <b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V</b>                  | 3   |
| <b>RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)</b> | 100 A   |
| <b>RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)</b> | 110 A   |
| <b>RATED BREAKING CAPACITY AT 500 V (COS</b>                         | 80 A  |

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| <b>PHI TO IEC 60947-3)</b>  |  |
| <b>RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)</b>          | 60 A   |
| <b>RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)</b>          | 130 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V</b>                         | 20 A   |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V</b>                        | 13.3 A   |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V</b>                 | 13.3 A   |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V</b>                        | 13.3 A   |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V</b>                        | 7.6 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V</b>            | 11.5 A   |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>            | 11.5 A   |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V</b>                          | 9 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V</b>                   | 4.9 A  |
| <b>SAFETY PARAMETER (EN ISO 13849-1)</b>                                      | B10d values as per EN ISO 13849-1, table C.1   |
| <b>SHORT-CIRCUIT PROTECTION RATING</b>  | 20 A gG/gL, Fuse, Contacts   |
| <b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>                              | 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 |
| <b>SUITABLE FOR</b>   | Ground mounting  |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS</b> | 10 A   |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, CONTROL SWITCHES L/R = 50 MS</b>  | 10 A   |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-21, 240 V</b>                         | 1 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V</b>                        | 5 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A,</b>                              | 10 A   |

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| <b>24 V</b>  |        |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 240 V</b>               | 5 A    |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V</b>                | 10 A   |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V</b>                | 10 A   |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 20 A   |
| <b>RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ</b>           | 3 kW   |
| <b>RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ</b>               | 5.5 kW |
| <b>RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ</b>               | 7.5 kW |
| <b>RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ</b>               | 5.5 kW |
| <b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>             | 4 kW   |
| <b>RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ</b>                 | 5.5 kW |
| <b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>                 | 4 kW   |
| <b>RATED OPERATIONAL POWER STAR-DELTA AT 220/230 V, 50 HZ</b>        | 5.5 kW |
| <b>RATED OPERATIONAL POWER STAR-DELTA AT 380/400 V, 50 HZ</b>        | 7.5 kW |
| <b>RATED OPERATIONAL POWER STAR-DELTA AT 500 V, 50 HZ</b>            | 7.5 kW |
| <b>RATED OPERATIONAL POWER STAR-DELTA AT 690 V, 50 HZ</b>            | 5.5 kW |
| <b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>                    | 690 V  |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>                              | 20 A   |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0 W    |
| <b>SWITCHING ANGLE</b>   | 60 °   |
| <b>VOLTAGE PER CONTACT PAIR IN SERIES</b>                            | 60 V   |

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| <b>TERMINAL CAPACITY<br/>(SOLID/STRANDED)</b> | 2 x (1 - 2.5) mm <sup>2</sup><br>1 x (1 - 2.5) mm <sup>2</sup>                         |
| <b>UNINTERRUPTED<br/>CURRENT</b>              | Rated uninterrupted current I <sub>u</sub><br>is specified for max. cross-<br>section. |
| <b>DESIGN</b>                                 | 8401   |

## Resources

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| <b>BROCHURES</b>                          | <a href="#">Brochure - T Rotary Cam switch and P Switch-disconnector</a>   |
| <b>CATALOGS</b>                           | <a href="#">P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN</a>  |
| <b>DECLARATIONS<br/>OF<br/>CONFORMITY</b> | <a href="#">DA-DC-00004895.pdf</a> <a href="#">DA-DC-00004927.pdf</a>  |
| <b>DRAWINGS</b>                           | <a href="#">eaton-rotary-switches-dimensions-t0-step-switch-dimensions.eps</a><br><a href="#">115X161</a><br><a href="#">eaton-rotary-switches-t0-changeover-switch-dimensions-002.eps</a><br><a href="#">115X113 000Z083</a><br><a href="#">eaton-rotary-switches-surface-mounting-t0-changeover-switch-3d-drawing.eps</a><br><a href="#">000Z078</a><br><a href="#">eaton-general-totally-insulated-t0-main-switch-symbol.eps</a><br><a href="#">eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-009.eps</a><br><a href="#">115K003 1150DRW-3</a><br><a href="#">eaton-general-rotary-switch-t0-step-switch-symbol.eps</a> |
| <b>ECAD MODEL</b>                         | <a href="#">DA-CE-ETN.T0-3-8401 I1</a>   |
| <b>INSTALLATION<br/>INSTRUCTIONS</b>      | <a href="#">Cam switch: Surface mounting enclosure (IL03801007Z)</a><br><a href="#">IL03801007Z2021 06.pdf</a>   |
| <b>INSTALLATION<br/>VIDEOS</b>            | <a href="#">Eaton's P Switch-disconnectors used in a factory</a>   |
| <b>MCAD MODEL</b>                         | <a href="#">eaton-cadenas-path-nockenschalter-assemblies-bauform4 asmtpl.prj</a><br><a href="#">eaton-cadenas-front view-bauform4 front.pra</a><br><a href="#">DA-CS-bauform4 DA-CD-bauform4</a><br><a href="#">eaton-cadenas-side view-bauform4 side.pra</a>  |
| <b>PRODUCT<br/>NOTIFICATIONS</b>          | <a href="#">MZ008006ZU Orderform Customized Switch.pdf</a><br><a href="#">MZ008005ZU Orderform Customized Switch.pdf</a>   |
| <b>WIRING<br/>DIAGRAMS</b>                | <a href="#">eaton-rotary-switches-reversing-switch-t0-reversing-switch-wiring-diagram-002.eps</a><br><a href="#">115S345-2</a>   |

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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