

Specifications

Eaton 207232

Eaton Moeller® series T5B
Changeoverswitches, T5B, 63 A, surface
mounting, 4 contact unit(s), Contacts: 8, 90 °,
maintained, With 0 (Off) position, 1-0-2,
Design number 8294

General specifications

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| PRODUCT NAME | Eaton Moeller® series T5B Changeover switch |
| CATALOG NUMBER | 207232 |
| EAN | 4015082072322 |
| PRODUCT LENGTH/DEPTH | 240 mm |
| PRODUCT HEIGHT | 197 mm |
| PRODUCT WIDTH | 160 mm |
| PRODUCT WEIGHT | 1.435 kg |
| CERTIFICATIONS | CSA CSA Class No.: 3211-05 UL 60947-4-1 IEC/EN 60204 IEC/EN 60947 IEC/EN 60947-3 UL CSA-C22.2 No. 60947-4-1- 14 VDE 0660 CSA-C22.2 No. 94 UL File No.: E36332 CE CSA File No.: 012528 UL Category Control No.: NLRV |
| CATALOG NOTES | Rated Short-time Withstand Current (Icw) for a time of 1 second |
| MODEL CODE | T5B-4-8294/I4 |



Powering Business Worldwide

Features & Functions

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| ENCLOSURE MATERIAL | Plastic |
| FEATURES | Complete device in housing |
| FITTED WITH: | Black thumb grip and front plate 0 (off) position |
| INSCRIPTION | 1-0-2 |
| NUMBER OF POLES | 4 |

General

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| DEGREE OF PROTECTION | IP65 NEMA 1 NEMA 12 |
| DEGREE OF PROTECTION (FRONT SIDE) | IP65 NEMA 12 |
| LIFESPAN, MECHANICAL | 500,000 Operations |
| MODEL | Reverser |
| MOUNTING METHOD | Surface mounting |
| MOUNTING POSITION | As required |
| NUMBER OF CONTACT UNITS | 4 |
| 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 Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting |
| SWITCHING ANGLE | 90 ° |
| TYPE | Changeover switch |

Climatic environmental conditions

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| 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 Damp heat, cyclic, to IEC 60068-2-30 |

Terminal capacities

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| TERMINAL CAPACITY (FLEXIBLE WITH FERRULE) | 1 x (1 - 25) mm ² , ferrules to DIN 46228 2 x (1.5 - 10) mm ² , ferrule to DIN 46228 |
| TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG) | 12 - 4 |
| TERMINAL CAPACITY (SOLID/STRANDED) | 2 x (2.5 - 16) mm ² 1 x (2.5 - 35) mm ² |
| SCREW SIZE | M6, Terminal screw |
| TIGHTENING TORQUE | 35.4 lb-in, Screw terminals 4 Nm, Screw terminals |

Electrical rating

RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3) 520 A

RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3) 600 A

RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3) 480 A

RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3) 340 A

RATED OPERATIONAL CURRENT (IE) 63 A at AC-3, 230 V star-delta
63 A at AC-3, 400 V star-delta
57.2 A at AC-3, 500 V star-delta
29.4 A at AC-3, 690 V star-delta

RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V 51 A

RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V 41 A

RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V 33 A

RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V 17 A

RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V 63 A

RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V 63 A

RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V 63 A

RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V 33 A

RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V 23.8 A

RATED OPERATIONAL CURRENT (IE) AT DC-1, 63 A

Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ) 2 kA

RATED SHORT-TIME WITHSTAND CURRENT (ICW) 1,3 kA, Contacts, 1 second

SHORT-CIRCUIT CURRENT RATING (HIGH FAULT) 10 kA, SCCR (UL/CSA)
100 A, Class J, max. Fuse, SCCR (UL/CSA)

SHORT-CIRCUIT PROTECTION RATING 80 A gG/gL, Fuse, Contacts

LOAD-BREAK SWITCHES**L/R = 1 MS**

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| RATED OPERATIONAL CURRENT (IE) AT DC-13, CONTROL SWITCHES L/R = 50 MS | 25 A |
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| RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V | 50 A |
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| RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V | 50 A |
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| RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V | 50 A |
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| RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V | 25 A |
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| RATED OPERATIONAL CURRENT (IE) AT DC-23A, 240 V | 20 A |
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| RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ | 22 kW |
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| RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ | 22 kW |
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| RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ | 15 kW |
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| RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ | 18.5 kW |
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| RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ | 30 kW |
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| RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ | 22 kW |
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| RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ | 22 kW |
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| RATED OPERATIONAL POWER STAR-DELTA AT 220/230 V, 50 HZ | 18.5 kW |
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| RATED OPERATIONAL POWER STAR-DELTA AT 380/400 V, 50 HZ | 30 kW |
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| RATED OPERATIONAL POWER STAR-DELTA AT | 37 kW |
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500 V, 50 HZ

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| RATED OPERATIONAL POWER STAR-DELTA AT 690 V, 50 HZ | 22 kW |
| RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX | 690 V |
| RATED UNINTERRUPTED CURRENT (IU) | 63 A |
| UNINTERRUPTED CURRENT | Rated uninterrupted current I _u is specified for max. cross-section. |

Switching capacity

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| LOAD RATING | 1.6 x I _e (with intermittent operation class 12, 40 % duty factor) 2 x I _e (with intermittent operation class 12, 25 % duty factor) 1.3 x I _e (with intermittent operation class 12, 60 % duty factor) |
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| 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 | 6 |
| SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE) | 63 A, Rated uninterrupted current max. (UL/CSA) |
| RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3) | 800 A |
| VOLTAGE PER CONTACT PAIR IN SERIES | 60 V |

Motor rating

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| ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE | 3 HP |
| ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE | 7.5 HP |
| ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE | 15 HP |
| ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE | 10 HP |
| ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE | 15 HP |
| ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE | 40 HP |
| ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE | 40 HP |

Contacts

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| CONTROL CIRCUIT RELIABILITY | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA) |
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| NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS) | 0 |
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| NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) | 0 |
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| NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) | 0 |
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| NUMBER OF CONTACTS | 8 |
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Actuator

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| ACTUATOR FUNCTION | Maintained With 0 (Off) position |
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| ACTUATOR TYPE | Short thumb-grip |
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Design verification

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| EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID | 0 W |
| HEAT DISSIPATION CAPACITY PDISS | 0 W |
| HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID | 4.5 W |
| RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 63 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. |

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| 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. |

Resources

BROCHURES

[Brochure - T Rotary Cam switch and P Switch-disconnector](#)

CATALOGUES

[P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN](#)

DECLARATIONS OF CONFORMITY

[DA-DC-00004925.pdf](#) [DA-DC-00004897.pdf](#)

DRAWINGS

[eaton-rotary-switches-t5b-changeover-switch-dimensions-002.eps](#)

[eaton-general-totally-insulated-t0-main-switch-symbol.eps](#)

[eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-011.eps](#)

[eaton-rotary-switches-surface-mounting-t0-changeover-switch-3d-drawing.eps](#)

[eaton-general-rotary-switch-t0-step-switch-symbol.eps](#)

ECAD MODEL [ETN.207232.edz](#)

INSTALLATION INSTRUCTIONS [IL03801009Z](#)

INSTALLATION VIDEOS [Eaton's P Switch-disconnectors used in a factory](#)

MCAD MODEL [DA-CS-bauform14](#) [DA-CD-bauform14](#)

PRODUCT NOTIFICATIONS [MZ008006ZU_Orderform_Customized_Switch.pdf](#)

[MZ008005ZU_Orderform_Customized_Switch.pdf](#)

WIRING DIAGRAMS [eaton-rotary-switches-changeover-switch-t0-changeover-switch-wiring-diagram-005.eps](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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