

Changeover switches, T3, 32 A, surface mounting, 4 contact unit(s),  
Contacts: 8, 90 °, maintained, With 0 (Off) position, 1-0-2, Design number  
8294

Part no. **T3-4-8294/I2**  
**207193**

| General specifications            |                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name                      | Eaton Moeller® series T3 Changeover switch                                                                                                                                                                                                                                                                                                     |
| Part no.                          | T3-4-8294/I2                                                                                                                                                                                                                                                                                                                                   |
| EAN                               | 4015082071936                                                                                                                                                                                                                                                                                                                                  |
| Product Length/Depth              | 181 millimetre                                                                                                                                                                                                                                                                                                                                 |
| Product height                    | 127 millimetre                                                                                                                                                                                                                                                                                                                                 |
| Product width                     | 100 millimetre                                                                                                                                                                                                                                                                                                                                 |
| Product weight                    | 0.594 kilogram                                                                                                                                                                                                                                                                                                                                 |
| Compliances                       | CE Marked                                                                                                                                                                                                                                                                                                                                      |
| Certifications                    | CSA Std. C22.2 No. 14-05<br>UL 508<br>EN 60947-3<br>IEC 60947<br>VDE<br>CSA-C22.2 No. 94<br>IEC/EN 60947-3<br>CSA File No.: 012528<br>UL<br>UL File No.: E36332<br>UL 60947-4-1<br>CSA<br>VDE 0660<br>UL Category Control No.: NLRV<br>IEC/EN 60947<br>IEC/EN 60204<br>CSA-C22.2 No. 60947-4-1-14<br>CE<br>CSA Class No.: 3211-05<br>UL<br>CSA |
| Product Tradename                 | T3                                                                                                                                                                                                                                                                                                                                             |
| Product Type                      | Changeover switch                                                                                                                                                                                                                                                                                                                              |
| Product Sub Type                  | None                                                                                                                                                                                                                                                                                                                                           |
| Catalog Notes                     | Rated Short-time Withstand Current (Icw) for a time of 1 second                                                                                                                                                                                                                                                                                |
| Features & Functions              |                                                                                                                                                                                                                                                                                                                                                |
| Enclosure material                | Plastic                                                                                                                                                                                                                                                                                                                                        |
| Features                          | Complete device in housing                                                                                                                                                                                                                                                                                                                     |
| Fitted with:                      | 0 (off) position<br>Black thumb grip and front plate                                                                                                                                                                                                                                                                                           |
| Inscription                       | 1-0-2                                                                                                                                                                                                                                                                                                                                          |
| Number of poles                   | 4                                                                                                                                                                                                                                                                                                                                              |
| General information               |                                                                                                                                                                                                                                                                                                                                                |
| Accessories                       | Black thumb grip and front plate                                                                                                                                                                                                                                                                                                               |
| Degree of protection              | NEMA 1<br>NEMA 12<br>IP65                                                                                                                                                                                                                                                                                                                      |
| Degree of protection (front side) | IP65<br>NEMA 12                                                                                                                                                                                                                                                                                                                                |
| Lifespan, mechanical              | 500,000 Operations                                                                                                                                                                                                                                                                                                                             |
| Model                             | Reverser                                                                                                                                                                                                                                                                                                                                       |
| Mounting method                   | Surface<br>Surface mounting                                                                                                                                                                                                                                                                                                                    |
| Mounting position                 | As required                                                                                                                                                                                                                                                                                                                                    |
| Number of contact units           | 4                                                                                                                                                                                                                                                                                                                                              |
| Operating frequency               | 1200 Operations/h                                                                                                                                                                                                                                                                                                                              |
| Overvoltage category              | III                                                                                                                                                                                                                                                                                                                                            |
| Pollution degree                  | 3                                                                                                                                                                                                                                                                                                                                              |

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|------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------|
| 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 °                                                                                                                                   |
| Type                                                                   |  | Changeover switch                                                                                                                      |
| <b>Climatic environmental conditions</b>                               |  |                                                                                                                                        |
| 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                                                         |
| <b>Terminal capacities</b>                                             |  |                                                                                                                                        |
| Terminal capacity (flexible with ferrule)                              |  | 1 x (0.75 - 4) mm <sup>2</sup> , ferrules to DIN 46228<br>2 x (0.75 - 4) mm <sup>2</sup> , ferrules to DIN 46228                       |
| Terminal capacity (solid/flexible with ferrule AWG)                    |  | 14 - 10                                                                                                                                |
| Terminal capacity (solid/stranded)                                     |  | 2 x (1 - 6) mm <sup>2</sup><br>1 x (1 - 6) mm <sup>2</sup>                                                                             |
| Screw size                                                             |  | M4, Terminal screw                                                                                                                     |
| Tightening torque                                                      |  | 17.7 lb-in, Screw terminals<br>1.6 Nm, Screw terminals                                                                                 |
| <b>Electrical rating</b>                                               |  |                                                                                                                                        |
| 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)                                         |  | 32 A at AC-3, 230 V star-delta<br>32 A at AC-3, 500 V star-delta<br>25.5 A at AC-3, 690 V star-delta<br>32 A at AC-3, 400 V star-delta |
| 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 power at AC-3, 380/400 V, 50 Hz                      |  | 12 kW                                                                                                                                  |
| Rated operational power at AC-3, 415 V, 50 Hz                          |  | 11 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                                                                                                                                 |

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| 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 operational voltage (Ue) at AC - max                    |  | 690 V                                                                                                                                                                                                     |
| 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                                                                                                                                                                                 |
| 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                                                   |  | 1.3 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                                                                                                                                                                                                         |
| 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)       |  | 0                                                                                                                                                                                                         |
| Number of auxiliary contacts (normally open contacts)         |  | 0                                                                                                                                                                                                         |
| Number of contacts                                            |  | 8                                                                                                                                                                                                         |
| <b>Actuator</b>                                               |  |                                                                                                                                                                                                           |
| Actuator function                                             |  | With 0 (Off) position<br>Maintained                                                                                                                                                                       |
| Actuator type                                                 |  | Short thumb-grip                                                                                                                                                                                          |
| <b>Design verification</b>                                    |  |                                                                                                                                                                                                           |
| Equipment heat dissipation, current-dependent Pvid            |  | 0 W                                                                                                                                                                                                       |
| Heat dissipation capacity Pdiss                               |  | 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.                                                                                                                                                                |

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| 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) / Off-load switch (EC001105)                                                                                                                               |    |                  |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Load-break switch (ecl@ss13-27-37-14-05 [AKF062018]) |    |                  |
| Model                                                                                                                                                                                                   |    | Reverser         |
| Number of poles                                                                                                                                                                                         |    | 4                |
| With zero (off) position                                                                                                                                                                                |    | Yes              |
| With retraction in 0-position                                                                                                                                                                           |    | No               |
| Rated permanent current I <sub>u</sub>                                                                                                                                                                  | A  | 32               |
| Rated operation current I <sub>e</sub> at AC-3, 400 V                                                                                                                                                   | A  | 23.7             |
| Rated operation power at AC-3, 400 V                                                                                                                                                                    | kW | 12               |
| Degree of protection (IP), front side                                                                                                                                                                   |    | IP65             |
| Degree of protection (NEMA), front side                                                                                                                                                                 |    | 12               |
| Number of auxiliary contacts as normally closed contact                                                                                                                                                 |    | 0                |
| Number of auxiliary contacts as normally open contact                                                                                                                                                   |    | 0                |
| Number of auxiliary contacts as change-over contact                                                                                                                                                     |    | 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              |
| Housing material                                                                                                                                                                                        |    | Plastic          |
| Type of control element                                                                                                                                                                                 |    | Short thumb-grip |
| Type of electrical connection of main circuit                                                                                                                                                           |    | Screw connection |