

Main switch, T8, 315 A, surface mounting, 3 contact unit(s), 6 pole, 1 N/O, 1 N/C, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position

Part no. T8-3-8342/I48/SVB/HI11
201450

General specifications

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|----------------------|---|
| Product name | Eaton Moeller® series T8 Main switch |
| Part no. | T8-3-8342/I48/SVB/HI11 |
| EAN | 4015082014506 |
| Product Length/Depth | 750 millimetre |
| Product height | 345 millimetre |
| Product width | 375 millimetre |
| Product weight | 17.28 kilogram |
| Compliances | Contact Manufacturer |
| Certifications | VDE 0660 IEC/EN 60947-3 IEC/EN 60204 IEC/EN 60947 |
| Product Tradename | T8 |
| Product Type | Main switch |
| Product Sub Type | None |
| Catalog Notes | Rated Short-time Withstand Current (Icw) for a time of 1 second |

Features & Functions

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| Features | Version as emergency stop installation Version as maintenance-/service switch Version as main switch |
| Fitted with: | Red rotary handle and yellow locking ring |
| Functions | Interlockable Emergency switching off function |
| Locking facility | Lockable in the 0 (Off) position |
| Number of poles | 6 |

General information

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| Degree of protection | NEMA 12 |
| Degree of protection (front side) | IP64 |
| Lifespan, mechanical | 100,000 Operations |
| Mounting method | Surface mounting |
| Mounting position | As required |
| Number of contact units | 3 |
| Operating frequency | 50 Operations/h |
| Oversupply category | III |
| Pollution degree | 3 |
| Rated impulse withstand voltage (Uimp) | 8000 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 |
| Suitable for | Ground mounting |
| Switching angle | 90 ° |

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 | 2 x (20 x 3) mm, Flat conductor connection with busbars 1 x (25 x 5) mm, Flat conductor connection with busbars 185 mm ² , solid or stranded |
| Screw size | M12, Terminal screw |
| Tightening torque | 125 lb-in, Screw terminals 14 Nm, Screw terminals |
| Electrical rating | |
| Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3) | 1910 A |
| Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3) | 1800 A |
| Rated breaking capacity at 500 V (cos phi to IEC 60947-3) | 1200 A |
| Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3) | 420 A |
| Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V | 126 A |
| Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V | 105 A |
| Rated operational current (Ie) at AC-3, 500 V | 78 A |
| Rated operational current (Ie) at AC-3, 660 V, 690 V | 42 A |
| Rated operational current (Ie) at AC-21, 440 V | 315 A |
| Rated operational current (Ie) at AC-23A, 230 V | 239 A |
| Rated operational current (Ie) at AC-23A, 400 V, 415 V | 245 A |
| Rated operational current (Ie) at AC-23A, 500 V | 184 A |
| Rated operational current (Ie) at AC-23A, 690 V | 42 A |
| Rated operational current (Ie) at DC-1, load-break switches l/r = 1 ms | 315 A |
| Rated operational current (Ie) at DC-13, control switches L/R = 50 ms | 250 A |
| Rated operational current (Ie) at DC-23A, 24 V | 250 A |
| Rated operational current (Ie) at DC-23A, 48 V | 250 A |
| Rated operational current (Ie) at DC-23A, 60 V | 125 A |
| Rated operational current (Ie) at DC-23A, 120 V | 50 A |
| Rated operational current (Ie) star-delta at AC-3, 380/400 V | 105 A |
| Rated operational current (Ie) star-delta at AC-3, 500 V | 78 A |
| Rated operational power at AC-3, 380/400 V, 50 Hz | 55 kW |
| Rated operational power at AC-3, 415 V, 50 Hz | 55 kW |
| Rated operational power at AC-3, 500 V, 50 Hz | 37 kW |
| Rated operational power at AC-3, 690 V, 50 Hz | 37 kW |
| Rated operational power at AC-23A, 220/230 V, 50 Hz | 75 kW |
| Rated operational power at AC-23A, 400 V, 50 Hz | 132 kW |
| Rated operational power at AC-23A, 500 V, 50 Hz | 132 kW |
| Rated operational power at AC-23A, 690 V, 50 Hz | 37 kW |
| Rated operational power star-delta at 220/230 V, 50 Hz | 37 kW |
| Rated operational power star-delta at 380/400 V, 50 Hz | 55 kW |
| Rated operational power star-delta at 500 V, 50 Hz | 37 kW |
| Rated operational power star-delta at 690 V, 50 Hz | 37 kW |
| Rated uninterrupted current (Iu) | 315 A |
| Uninterrupted current | Rated uninterrupted current Iu is specified for max. cross-section. 315 A (open), 275 A (enclosed) |
| Short-circuit rating | |
| Rated conditional short-circuit current (Iq) | 5 kA |
| Rated short-time withstand current (Icw) | 4.2 kA, Contacts, 1 second 4.2 kA |
| Short-circuit protection rating | 315 A gG/gL, Fuse, Contacts |
| Switching capacity | |
| Load rating | 2 x I# (with intermittent operation class 12, 25 % duty factor) 1.6 x I# (with intermittent operation class 12, 40 % duty factor) 1.3 x I# (with intermittent operation class 12, 60 % duty factor) |
| 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 |
| Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3) | 2390 A |
| Voltage per contact pair in series | 42 V |

Contacts

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| 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 |

Actuator

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| Actuator color | Red |
| Actuator type | Door coupling rotary drive |

Design verification

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| Equipment heat dissipation, current-dependent Pvid | 11 W |
| Heat dissipation capacity Pdiss | 0 W |
| Heat dissipation per pole, current-dependent Pvid | 11 W |
| Rated operational current for specified heat dissipation (In) | 315 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. |
| 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

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| Low-voltage industrial components (EG000017) / Switch disconnector (EC000216) | | |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013]) | | |
| Version as main switch | Yes | |
| Version as maintenance-/service switch | Yes | |
| Version as safety switch | No | |
| Version as emergency stop installation | Yes | |
| Version as reversing switch | No | |
| Number of switches | 1 | |
| Max. rated operation voltage Ue AC | V | 690 |
| Rated operating voltage | V | 690 - 690 |
| Rated permanent current Iu | A | 315 |
| Rated permanent current at AC-23, 400 V | A | 245 |
| Rated permanent current at AC-21, 400 V | A | 315 |
| Rated operation power at AC-3, 400 V | kW | 55 |

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| Rated short-time withstand current I_{cw} | kA | 4.2 |
| Rated operation power at AC-23, 400 V | kW | 132 |
| Switching power at 400 V | kW | 132 |
| Conditioned rated short-circuit current I_q | kA | 5 |
| 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 | | Red |
| Type of control element | | Door coupling rotary drive |
| Interlockable | | Yes |
| Type of electrical connection of main circuit | | Screw connection |
| Degree of protection (IP), front side | | IP64 |
| Degree of protection (NEMA) | | 12 |