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Eaton 207121

Eaton Moeller® series T0 Voltage current measuring switch, 20 A, surface mounting, 3 contact units, Contacts: 6, 90 °, maintained, 0 (Off) position, 0-1-0-2, Design no. 8030

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PRODUCT NAME Eaton Moeller® series T0 Voltage current measuring switch

CATALOG NUMBER 207121

PRODUCT LENGTH/DEPTH 137 mm

PRODUCT HEIGHT 122 mm

PRODUCT WIDTH 80 mm

PRODUCT WEIGHT 0.288 kg

CERTIFICATIONS IEC 60947

EN 60204

EN 60947

VDE

IEC/EN 60947-3

VDE 0660

IEC/EN 60204

IEC/EN 60947

CATALOG NOTES Rated Short-time
Withstand Current (Icw)
for a time of 1 second



Powering Business Worldwide

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| TYPE | Voltage current measuring switch |
| ACCESSORIES | Black thumb grip and front plate |
| AMPERAGE RATING | 20A |
| PRODUCT CATEGORY | Control switches |
| ACTUATOR FUNCTION | Maintained With 0 (Off) position |
| 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. |
| 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. |

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DECLARATIONS OF CONFORMITY

[eaton-step-switch-declaration-of-conformity-uk251327en.pdf](#)

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[IL03801007Z2021_06.pdf](#)

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[eaton-rotary-switches-t0-changeover-switch-dimensions-002.eps](#)

[eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-005.eps](#)

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

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| 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. |
| FITTED WITH: | 0 (off) position Black thumb grip and front plate Control unit |
| OPERATING FREQUENCY | 1200 Operations/h |
| POLLUTION DEGREE | 3 |
| CLIMATIC PROOFING | Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 |
| ENCLOSURE MATERIAL | Plastic |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) | 6000 V AC |
| AMBIENT OPERATING TEMPERATURE - MAX | 40 °C |
| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C |
| AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX | 40 °C |
| AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN | -25 °C |
| EQUIPMENT HEAT | 0 W |

**DISSIPATION, CURRENT-
DEPENDENT PVID**

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| HEAT DISSIPATION CAPACITY PDISS | 0 W |
| HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID | 0.6 W |
| NUMBER OF CONTACT UNITS | 3 |
| DEVICE CONSTRUCTION | Surface mounting |
| RATED SHORT-TIME WITHSTAND CURRENT (ICW) | 320 A, Contacts, 1 second |
| MOUNTING POSITION | As required |
| RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ) | 6 kA |
| MOUNTING METHOD | Surface mounting |
| OVERVOLTAGE CATEGORY | III |
| CONTROL CIRCUIT RELIABILITY | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA) |
| NUMBER OF POLES | 3 |
| DEGREE OF PROTECTION | IP65 NEMA 2 |
| NUMBER OF CONTACTS | 6 |
| INSCRIPTION | 0-1-0-2 |
| SWITCH FUNCTION TYPE | 2 converters |
| FUNCTIONS | Measuring between phase and N-neutral possible Measurement between phases possible |
| LIFESPAN, MECHANICAL | 400,000 Operations |
| SAFE ISOLATION | 440 V AC, Between the contacts, According to EN 61140 |
| RATED OPERATIONAL CURRENT (IE) | 15.6 A at AC-3, 500 V star- delta 8.5 A at AC-3, 690 V star- delta 20 A at AC-3, 400 V star- delta 20 A at AC-3, 230 V star- delta |
| SCREW SIZE | M3.5, Terminal screw |
| SHOCK RESISTANCE | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half- sinusoidal shock 20 ms |

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| LOAD RATING | 1.3 x I_e (with intermittent operation class 12, 60 % duty factor) 2 x I_e (with intermittent operation class 12, 25 % duty factor) 1.6 x I_e (with intermittent operation class 12, 40 % duty factor) |
| TIGHTENING TORQUE | 1 Nm, Screw terminals |
| NUMBER OF CONTACTS IN SERIES AT DC-21A, 240 V | 1 |
| NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V | 3 |
| NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V | 1 |
| NUMBER OF CONTACTS IN SERIES AT DC-23A, 240 V | 5 |
| NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V | 2 |
| NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V | 3 |
| 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 MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3) | 130 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 |

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| RATED OPERATIONAL | |
| CURRENT (IE) AT AC-23A, | 7.6 A |
| 690 V | |

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| RATED OPERATIONAL | |
| CURRENT (IE) AT AC-3, | 11.5 A |
| 220 V, 230 V, 240 V | |

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| RATED OPERATIONAL | |
| CURRENT (IE) AT AC-3, | 11.5 A |
| 380 V, 400 V, 415 V | |

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| RATED OPERATIONAL | |
| CURRENT (IE) AT AC-3, | 9 A |
| 500 V | |

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| RATED OPERATIONAL | |
| CURRENT (IE) AT AC-3, | 4.9 A |
| 660 V, 690 V | |

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| SAFETY PARAMETER (EN ISO 13849-1) | B10d values as per EN ISO 13849-1, table C.1 |
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| SHORT-CIRCUIT PROTECTION RATING | 20 A gG/gL, Fuse, Contacts |
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| TERMINAL CAPACITY (FLEXIBLE WITH FERRULE) | 2 x (0.75 - 2.5) mm ² , ferrules to DIN 46228 1 x (0.75 - 2.5) mm ² , ferrules to DIN 46228 |
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| RATED OPERATIONAL | |
| CURRENT (IE) AT DC-1, | 10 A |
| LOAD-BREAK SWITCHES L/R | |
| L/R = 1 MS | |

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| RATED OPERATIONAL | |
| CURRENT (IE) AT DC-13, | 10 A |
| CONTROL SWITCHES L/R | |
| = 50 MS | |

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| RATED OPERATIONAL | |
| CURRENT (IE) AT DC-21, | 1 A |
| 240 V | |

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| RATED OPERATIONAL | |
| CURRENT (IE) AT DC-23A, | 5 A |
| 120 V | |

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| RATED OPERATIONAL | |
| CURRENT (IE) AT DC-23A, | 10 A |
| 24 V | |

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| RATED OPERATIONAL | |
| CURRENT (IE) AT DC-23A, | 5 A |
| 240 V | |

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| RATED OPERATIONAL | |
| CURRENT (IE) AT DC-23A, | 10 A |
| 48 V | |

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| RATED OPERATIONAL | |
| CURRENT (IE) AT DC-23A, | 10 A |
| 60 V | |

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| RATED OPERATIONAL | |
| CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 20 A |
| HEAT DISSIPATION (IN) | |

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| RATED OPERATIONAL | 3 kW |
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**POWER AT AC-23A,
220/230 V, 50 Hz**

RATED OPERATIONAL

**POWER AT AC-23A, 400 V, 5.5 kW
50 Hz**

RATED OPERATIONAL

**POWER AT AC-23A, 500 V, 7.5 kW
50 Hz**

RATED OPERATIONAL

**POWER AT AC-23A, 690 V, 5.5 kW
50 Hz**

RATED OPERATIONAL

POWER AT AC-3, 415 V, 50 Hz 5.5 kW

RATED OPERATIONAL

POWER AT AC-3, 690 V, 50 Hz 4 kW

RATED OPERATIONAL

**POWER STAR-DELTA AT 5.5 kW
220/230 V, 50 Hz**

RATED OPERATIONAL

**POWER STAR-DELTA AT 7.5 kW
380/400 V, 50 Hz**

RATED OPERATIONAL

**POWER STAR-DELTA AT 7.5 kW
500 V, 50 Hz**

RATED OPERATIONAL

**POWER STAR-DELTA AT 5.5 kW
690 V, 50 Hz**

RATED OPERATIONAL

**VOLTAGE (UE) AT AC - 690 V
MAX**

RATED UNINTERRUPTED

CURRENT (IU) 20 A

STATIC HEAT

**DISSIPATION, NON-
CURRENT-DEPENDENT 0 W**

PVS

SWITCHING ANGLE

90 °

**VOLTAGE PER CONTACT
PAIR IN SERIES**

60 V

**TERMINAL CAPACITY
(SOLID/STRANDED)**

**1 x (1 - 2.5) mm²
2 x (1 - 2.5) mm²**

**UNINTERRUPTED
CURRENT**

**Rated uninterrupted
current lu is specified for
max. cross-section.**

DESIGN

8030

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