# Specifications





## Eaton 020031

Eaton Moeller® series T3 Reversing switch, 32 A, rear mounting, Basic switch, 3 contact units, Contacts: 5, 60 °, Design number 8401

| General specifications | |
|---|---|
| **PRODUCT NAME** | Eaton Moeller® series T3 Reversing switch |
| **CATALOG NUMBER** | 020031 |
| **MODEL CODE** | T3-3-8401/XZ |
| **EAN** | 4015080200314 |
| **PRODUCT LENGTH/DEPTH** | 74 mm |
| **PRODUCT HEIGHT** | 54 mm |
| **PRODUCT WIDTH** | 61 mm |
| **PRODUCT WEIGHT** | 0.195 kg |
| **CERTIFICATIONS** | CE |

## Features & Functions

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| **ENCLOSURE MATERIAL** | Plastic |
| **FITTED WITH:** | 0 (off) position |
| **NUMBER OF POLES** | Three-pole |

## General

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| **DEGREE OF PROTECTION** | NEMA 12<br>IP65 |
| **DEGREE OF PROTECTION (FRONT SIDE)** | IP65<br>NEMA 12 |
| **MODEL** | Reversing switch |
| **MOUNTING METHOD** | Rear mounting |
| **MOUNTING POSITION** | As required |
| **NUMBER OF CONTACT UNITS** | 3 |
| **OVERVOLTAGE CATEGORY** | III |
| **POLLUTION DEGREE** | 3 |
| **SUITABLE FOR** | Intermediate mounting<br>Ground mounting<br>Front mounting |
| **SWITCHING ANGLE** | 60 ° |

## Electrical rating

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|---|---|
| **RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V** | 23.7 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V** | 32 A |
| **RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ** | 12 kW |
| **RATED UNINTERRUPTED CURRENT (IU)** | 32 A |

## Contacts

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|---|---|
| **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** | 5 |

## Actuator

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| **ACTUATOR TYPE** | Short thumb-grip |

## Design verification

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| **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** | Does not apply, since the |

| | |
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| **IMPACT** | 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. |

## Resources

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| **BROCHURES** | Brochure - T Rotary Cam switch and P Switch-disconnector |
| **CATALOGUES** | P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN |
| **DECLARATIONS OF CONFORMITY** | eaton-changeover-switch-declaration-of-conformity-uk260199en.pdf<br><br>eaton-main-switch-declaration-of-conformity-eu260188en.pdf |
| **DRAWINGS** | eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-009.eps |
| **ECAD MODEL** | DA-CE-ETN.T3-3-8401_XZ |
| **INSTALLATION INSTRUCTIONS** | IL03801006Z |
| **INSTALLATION VIDEOS** | Eaton's P Switch-disconnectors used in a factory |
| **MCAD MODEL** | DA-CS-t3_xz_3<br><br>eaton-cam-switches-mcad-drawings-t3-xz-3.dwg |
| **WIRING DIAGRAMS** | eaton-rotary-switches-reversing-switch-t0-reversing-switch-wiring-diagram-002.eps |

| | |
|---|---|
| **PROJECT NAME:** | |
| **PROJECT NUMBER:** | |
| **PREPARED BY:** | |
| **DATE:** | |

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