# DATASHEET - TM-3-8261/EZ

**Step switches, TM, 10 A, centre mounting, 3 contact unit(s), Contacts: 6, 45 °, maintained, With 0 (Off) position, 0-3, Design number 8261**

**Part no.** **TM-3-8261/EZ**
**000698**

| | |
|---|---|
| Product name | Eaton Moeller® series TM Step switch |
| Part no. | TM-3-8261/EZ |
| EAN | 4015080006985 |
| Product Length/Depth | 98 millimetre |
| Product height | 30 millimetre |
| Product width | 30 millimetre |
| Product weight | 0.053 kilogram |
| Certifications | CSA-C22.2 No. 14-05<br>UL Category Control No.: NLRV<br>UL 508<br>CSA-C22.2 No. 94<br>VDE 0660<br>CSA<br>IEC/EN 60947-5-1<br>UL report applies to both US and Canada<br>UL File No.: E36332<br>UL<br>CE<br>IEC/EN 60947<br>Certified by UL for use in Canada<br>IEC/EN 60947-3 |
| Product Tradename | TM |
| Product Type | Step switch |
| Product Sub Type | None |
| | |
| Fitted with: | Black thumb grip and front plate<br>0 (off) position |
| Inscription | 0-3 |
| Number of poles | Two-pole |
| | |
| Degree of protection | IP65 |
| Degree of protection (front side) | IP65<br>NEMA 12 |
| Lifespan, mechanical | 1,000,000 Operations |
| Mounting method | Center mounting |
| Mounting position | As required |
| Number of contact units | 3 |
| Operating frequency | 1200 Operations/h |
| Overvoltage category | III |
| Pollution degree | 3 |
| Product category | Control switches |
| Rated impulse withstand voltage (Uimp) | 4000 V AC |
| Suitable for | Front mounting |
| Switching angle | 45 ° |
| Type | Step switch |
| | |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 50 °C |
| Climatic proofing | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |
| | |
| Terminal capacity (flexible with ferrule) | 2 x 1.0 $mm^2$, ferrules to DIN 46228<br>1 x 1.0 $mm^2$, ferrules to DIN 46228 |
| Terminal capacity (flexible) | 2 x 1.5 $mm^2$ |

| | |
|---|---|
| | 1 x 1.5 $mm^2$ |
| Terminal capacity (solid/flexible with ferrule AWG) | 14 |
| Terminal capacity (solid/stranded) | 2 x 1,5 $mm^2$<br>1 x 1.5 $mm^2$ |
| Screw size | M2.5, Terminal screw |
| Tightening torque | 3.5 lb-in, Screw terminals<br>0.4 Nm, Screw terminals |
| | |
| Rated operating voltage (Ue) at AC - max | 500 V |
| Rated operational current (Ie) at AC-21, 440 V | 10 A |
| Rated operational power at AC-23A, 400 V, 50 Hz | 3 kW |
| Rated uninterrupted current (Iu) | 10 A |
| Uninterrupted current | Rated uninterrupted current Iu is specified for max. cross-section. |
| | |
| Short-circuit protection rating | 10 A gG/gL, Fuse, Contacts |
| | |
| Switching capacity (main contacts, general use) | 10 A, Rated uninterrupted current max. (UL/CSA) |
| Switching capacity (auxiliary contacts, general use) | 10A, IU, (UL/CSA) |
| Switching capacity (auxiliary contacts, pilot duty) | A300 (UL/CSA) |
| | |
| Assigned motor power at 115/120 V, 60 Hz, 1-phase | 0.33 HP |
| Assigned motor power at 115/120 V, 60 Hz, 3-phase | 0.75 HP |
| Assigned motor power at 230/240 V, 60 Hz, 1-phase | 0.75 HP |
| Assigned motor power at 230/240 V, 60 Hz, 3-phase | 1 HP |
| Assigned motor power at 277 V, 60 Hz, 1-phase | 0.75 HP |
| | |
| Control circuit reliability | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA) |
| Number of contacts | 6 |
| | |
| Actuator function | Maintained<br>With 0 (Off) position |
| Actuator type | Toggle |
| Number of steps | 3 (45°) |
| Number of switch positions | 4 |
| | |
| Equipment heat dissipation, current-dependent Pvid | 0 W |
| Heat dissipation capacity Pdiss | 0 W |
| Heat dissipation per pole, current-dependent Pvid | 0.15 W |
| Rated operational current for specified heat dissipation (In) | 10 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. |

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|---|---|---|---|
| 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

Low-voltage industrial components (EG000017) / Control switch (EC002611)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss10.0.1-27-37-14-14 [ACN998011])

| | | | |
|---|---|---|---|
| Type of switch | | | Level switch |
| Number of poles | | | 2 |
| Max. rated operation voltage Ue AC | | V | 500 |
| Rated permanent current Iu | | A | 10 |
| Number of switch positions | | | 4 |
| With zero (off) position | | | Yes |
| With retraction in 0-position | | | No |
| Device construction | | | Built-in device |
| Width in number of modular spacings | | | 0 |
| Suitable for floor mounting | | | No |
| Suitable for front mounting | | | Yes |
| Suitable for distribution board installation | | | No |
| Suitable for intermediate mounting | | | No |
| Complete device in housing | | | No |
| Type of control element | | | Toggle |
| Front shield size | | | 30x30 mm |
| Degree of protection (IP), front side | | | IP65 |
| Degree of protection (NEMA), front side | | | 12 |


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