

# Specifications



## Eaton 076813

Eaton Moeller® series T0  
Changeoverswitches, T0, 20 A, service  
distribution board mounting, 2 contact  
unit(s), Contacts: 4, 60 °, maintained, With 0  
(Off) position, 1-0-2, Design number 8211

### General specifications

|                     |                                               |
|---------------------|-----------------------------------------------|
| <b>PRODUCT NAME</b> | Eaton Moeller® series T0<br>Changeover switch |
|---------------------|-----------------------------------------------|

|                       |        |
|-----------------------|--------|
| <b>CATALOG NUMBER</b> | 076813 |
|-----------------------|--------|

|                   |               |
|-------------------|---------------|
| <b>MODEL CODE</b> | T0-2-8211/IVS |
|-------------------|---------------|

|            |               |
|------------|---------------|
| <b>EAN</b> | 4015080768135 |
|------------|---------------|

|                                 |       |
|---------------------------------|-------|
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 92 mm |
|---------------------------------|-------|

|                       |       |
|-----------------------|-------|
| <b>PRODUCT HEIGHT</b> | 55 mm |
|-----------------------|-------|

|                      |       |
|----------------------|-------|
| <b>PRODUCT WIDTH</b> | 54 mm |
|----------------------|-------|

|                       |         |
|-----------------------|---------|
| <b>PRODUCT WEIGHT</b> | 0.12 kg |
|-----------------------|---------|

|                       |                                                                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CERTIFICATIONS</b> | UL<br>CE<br>IEC/EN 60947-3<br>UL 60947-4-1<br>VDE 0660<br>IEC/EN 60947<br>CSA<br>CSA File No.: 012528<br>CSA-C22.2 No. 60947-4-1-<br>14<br>UL File No.: E36332<br>CSA-C22.2 No. 94<br>UL Category Control No.:<br>NLRV<br>CSA Class No.: 3211-05<br>IEC/EN 60204 |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                      |                                                                       |
|----------------------|-----------------------------------------------------------------------|
| <b>CATALOG NOTES</b> | Rated Short-time<br>Withstand Current (Icw)<br>for a time of 1 second |
|----------------------|-----------------------------------------------------------------------|

## Actuator

|                          |                                     |
|--------------------------|-------------------------------------|
| <b>ACTUATOR FUNCTION</b> | Maintained<br>With 0 (Off) position |
| <b>ACTUATOR TYPE</b>     | Short thumb-grip                    |

## Contacts

|                                                                |                                                                                         |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>CONTROL CIRCUIT RELIABILITY</b>                             | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA) |
| <b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>     | 0                                                                                       |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 0                                                                                       |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>   | 0                                                                                       |
| <b>NUMBER OF CONTACTS</b>                                      | 4                                                                                       |

## Climatic environmental conditions

|                                                       |                                                                                |
|-------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>            | 50 °C                                                                          |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>            | -25 °C                                                                         |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b> | 40 °C                                                                          |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b> | -25 °C                                                                         |
| <b>CLIMATIC PROOFING</b>                              | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |

## Design verification

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.10 TEMPERATURE RISE</b>                                                           | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                                                       | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.                                                                                       |

|                                                                      |                                                                    |
|----------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>              | Meets the product standard's requirements.                         |
| <b>10.2.5 LIFTING</b>                                                | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.2.6 MECHANICAL IMPACT</b>                                      | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.2.7 INSCRIPTIONS</b>                                           | Meets the product standard's requirements.                         |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                       | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                        | Meets the product standard's requirements.                         |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                        | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>        | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>             | Is the panel builder's responsibility.                             |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                      | Is the panel builder's responsibility.                             |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                      | Is the panel builder's responsibility.                             |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                              | Is the panel builder's responsibility.                             |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>      | Is the panel builder's responsibility.                             |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>            | 0 W                                                                |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                               | 0 W                                                                |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>             | 0.6 W                                                              |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 20 A                                                               |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0 W                                                                |

## Electrical rating

**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 OPERATIONAL  
CURRENT (IE)** 20 A at AC-3, 230 V star-  
delta  
20 A at AC-3, 400 V star-  
delta  
15.6 A at AC-3, 500 V star-  
delta  
8.5 A at AC-3, 690 V star-  
delta

**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

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

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

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

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

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

**RATED OPERATIONAL  
CURRENT (IE) AT DC-1,  
LOAD-BREAK SWITCHES  
L/R = 1 MS** 10 A

**RATED OPERATIONAL** 10 A

## Features & functions

**ENCLOSURE MATERIAL** Plastic

**FITTED WITH:** 0 (off) position  
Black thumb grip and  
front plate

**INSCRIPTION** 1-0-2

**NUMBER OF POLES** 2

|                                                                       |        |
|-----------------------------------------------------------------------|--------|
| <b>CURRENT (IE) AT DC-13,<br/>CONTROL SWITCHES L/R<br/>= 50 MS</b>    |        |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-21,<br/>240 V</b>         | 1 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>120 V</b>        | 5 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>24 V</b>         | 10 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>240 V</b>        | 5 A    |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>48 V</b>         | 10 A   |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT DC-23A,<br/>60 V</b>         | 10 A   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A,<br/>220/230 V, 50 HZ</b>    | 3 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A, 400 V,<br/>50 HZ</b>        | 5.5 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A, 500 V,<br/>50 HZ</b>        | 7.5 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-23A, 690 V,<br/>50 HZ</b>        | 5.5 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 380/400<br/>V, 50 HZ</b>      | 4 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 415 V, 50<br/>HZ</b>          | 5.5 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 690 V, 50<br/>HZ</b>          | 4 kW   |
| <b>RATED OPERATIONAL<br/>POWER STAR-DELTA AT<br/>220/230 V, 50 HZ</b> | 5.5 kW |
| <b>RATED OPERATIONAL<br/>POWER STAR-DELTA AT<br/>380/400 V, 50 HZ</b> | 7.5 kW |
| <b>RATED OPERATIONAL<br/>POWER STAR-DELTA AT<br/>500 V, 50 HZ</b>     | 7.5 kW |
| <b>RATED OPERATIONAL<br/>POWER STAR-DELTA AT</b>                      | 5.5 kW |

|                                                   |                                                                     |
|---------------------------------------------------|---------------------------------------------------------------------|
| <b>690 V, 50 HZ</b>                               |                                                                     |
| <b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b> | 690 V                                                               |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>           | 20 A                                                                |
| <b>UNINTERRUPTED CURRENT</b>                      | Rated uninterrupted current Iu is specified for max. cross-section. |

| General information                           |                                                                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>DEGREE OF PROTECTION</b>                   | IP30                                                                                                                            |
| <b>DEGREE OF PROTECTION (FRONT SIDE)</b>      | IP30<br>NEMA 2                                                                                                                  |
| <b>LIFESPAN, MECHANICAL</b>                   | 400,000 Operations                                                                                                              |
| <b>MODEL</b>                                  | Reverser                                                                                                                        |
| <b>MOUNTING METHOD</b>                        | Service distribution board mounting                                                                                             |
| <b>MOUNTING POSITION</b>                      | As required                                                                                                                     |
| <b>NUMBER OF CONTACT UNITS</b>                | 2                                                                                                                               |
| <b>OPERATING FREQUENCY</b>                    | 1200 Operations/h                                                                                                               |
| <b>OVERVOLTAGE CATEGORY</b>                   | III                                                                                                                             |
| <b>POLLUTION DEGREE</b>                       | 3                                                                                                                               |
| <b>PRODUCT CATEGORY</b>                       | Control switches                                                                                                                |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 6000 V AC                                                                                                                       |
| <b>SAFE ISOLATION</b>                         | 440 V AC, Between the contacts, According to EN 61140                                                                           |
| <b>SAFETY PARAMETER (EN ISO 13849-1)</b>      | B10d values as per EN ISO 13849-1, table C.1                                                                                    |
| <b>SHOCK RESISTANCE</b>                       | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms                                                   |
| <b>SUITABLE FOR</b>                           | Ground mounting<br>Distribution board installation<br>Branch circuits, suitable as motor disconnect, (UL/CSA)<br>Front mounting |
| <b>SWITCHING ANGLE</b>                        | 60 °                                                                                                                            |
| <b>TYPE</b>                                   | Changeover switch                                                                                                               |

| Motor rating                                             |        |
|----------------------------------------------------------|--------|
| <b>ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE</b> | 0.5 HP |
| <b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE</b> | 1 HP   |
| <b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE</b> | 3 HP   |
| <b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE</b> | 1.5 HP |
| <b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE</b> | 3 HP   |
| <b>ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE</b> | 7.5 HP |
| <b>ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE</b> | 7.5 HP |

## Short-circuit rating

**RATED CONDITIONAL  
SHORT-CIRCUIT CURRENT (IQ)** 6 kA

**RATED SHORT-TIME  
WITHSTAND CURRENT (ICW)** 320 A, Contacts, 1 second

**SHORT-CIRCUIT CURRENT  
RATING (BASIC RATING)** 50A, max. Fuse, SCCR (UL/CSA)  
5 kA, SCCR (UL/CSA)

**SHORT-CIRCUIT CURRENT  
RATING (HIGH FAULT)** 20 A, Class J, max. Fuse, SCCR (UL/CSA)  
10 kA, SCCR (UL/CSA)

**SHORT-CIRCUIT  
PROTECTION RATING** 20 A gG/gL, Fuse, Contacts

## Switching capacity

**LOAD RATING** 1.3 x I<sub>e</sub> (with intermittent operation class 12, 60 % duty factor)  
1.6 x I<sub>e</sub> (with intermittent operation class 12, 40 % duty factor)  
2 x I<sub>e</sub> (with intermittent operation class 12, 25 % duty factor)

**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 MAKING  
CAPACITY UP TO 690 V  
(COS PHI TO IEC/EN 60947-3)** 130 A

**SWITCHING CAPACITY  
(AUXILIARY CONTACTS,  
GENERAL USE)** 10A, IU, (UL/CSA)

**SWITCHING CAPACITY  
(AUXILIARY CONTACTS,  
PILOT DUTY)** P300 (UL/CSA)  
A600 (UL/CSA)

**SWITCHING CAPACITY  
(MAIN CONTACTS,  
GENERAL USE)** 16 A, Rated uninterrupted current max. (UL/CSA)

**VOLTAGE PER CONTACT  
PAIR IN SERIES** 60 V

## Terminal capacities

|                                                                    |                                                                                                                            |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>SCREW SIZE</b>                                                  | M3.5, Terminal screw                                                                                                       |
| <b>TERMINAL CAPACITY<br/>(FLEXIBLE WITH<br/>FERRULE)</b>           | 2 x (0.75 - 2.5) mm <sup>2</sup> ,<br>ferrules to DIN 46228<br>1 x (0.75 - 2.5) mm <sup>2</sup> ,<br>ferrules to DIN 46228 |
| <b>TERMINAL CAPACITY<br/>(SOLID/FLEXIBLE WITH<br/>FERRULE AWG)</b> | 18 - 14                                                                                                                    |
| <b>TERMINAL CAPACITY<br/>(SOLID/STRANDED)</b>                      | 1 x (1 - 2.5) mm <sup>2</sup><br>2 x (1 - 2.5) mm <sup>2</sup>                                                             |
| <b>TIGHTENING TORQUE</b>                                           | 1 Nm, Screw terminals<br>8.8 lb-in, Screw terminals                                                                        |

## Resources

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BROCHURES                        | <a href="#">Brochure - T Rotary Cam switch and P Switch-disconnector</a>                                                                                                                                                                                                                                                                                                                                                     |
| CATALOGUES                       | <a href="#">P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN</a>                                                                                                                                                                                                                                                                                                                                        |
| DECLARATIONS<br>OF<br>CONFORMITY | <a href="#">eaton-step-switch-declaration-of-conformity-uk251327en.pdf</a><br><a href="#">eaton-step-switch-declaration-of-conformity-eu250844en.pdf</a>                                                                                                                                                                                                                                                                     |
| DRAWINGS                         | <a href="#">eaton-rotary-switches-mounting-t0-step-switch-dimensions-003.eps</a><br><a href="#">eaton-rotary-switches-mounting-t0-step-switch-dimensions.eps</a><br><a href="#">eaton-rotary-switches-mounting-t0-changeover-switch-3d-drawing.eps</a><br><a href="#">eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-009.eps</a><br><a href="#">eaton-general-rotary-switch-t0-step-switch-symbol-005.eps</a> |
| ECAD MODEL                       | <a href="#">ETN.076813.edz</a>                                                                                                                                                                                                                                                                                                                                                                                               |
| INSTALLATION<br>INSTRUCTIONS     | <a href="#">IL03801006Z</a>                                                                                                                                                                                                                                                                                                                                                                                                  |
| INSTALLATION<br>VIDEOS           | <a href="#">Eaton's P Switch-disconnectors used in a factory</a>                                                                                                                                                                                                                                                                                                                                                             |
| MCAD MODEL                       | <a href="#">DA-CS-t0 2 ivs</a><br><a href="#">eaton-universal-control-switches-mcad-drawings-t0-2-ivs.dwg</a>                                                                                                                                                                                                                                                                                                                |
| PRODUCT<br>NOTIFICATIONS         | <a href="#">MZ008005ZU_Orderform_Customized_Switch.pdf</a><br><a href="#">MZ008006ZU_Orderform_Customized_Switch.pdf</a>                                                                                                                                                                                                                                                                                                     |
| WIRING<br>DIAGRAMS               | <a href="#">eaton-rotary-switches-changeover-switch-t0-changeover-switch-wiring-diagram-002.eps</a>                                                                                                                                                                                                                                                                                                                          |

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



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