



## Eaton 011789

Eaton Moeller series T0 Step switch, 20 A, Service distribution board mounting, 2 contact unit(s), Contacts: 3, Maintained, 0-3, Design: 8311

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<b>PRODUCT NAME</b>	Eaton Moeller® series T0 Step switch
<b>CATALOG NUMBER</b>	011789
<b>PRODUCT 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>	CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947-3 UL Category Control No.: NLRV VDE 0660 UL UL File No.: E36332 CSA UL 60947-4-1 CSA File No.: 012528 CE IEC/EN 60204 CSA-C22.2 No. 94 IEC/EN 60947 CSA Class No.: 3211-05
<b>CATALOG NOTES</b>	Rated Short-time Withstand Current (Icw) for a time of 1 second

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<b>TYPE</b>	Step switch
<b>ACTUATOR FUNCTION</b>	With 0 (Off) position Maintained
<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.

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<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">eaton-step-switch-declaration-of-conformity-uk251327en.pdf</a>
00000	<a href="#">IL03801006Z</a>
000	<a href="#">eaton-rotary-switches-switch-t0-step-switch-wiring-diagram-006.eps</a>
	<a href="#">eaton-rotary-switches-mounting-t0-step-switch-dimensions-003.eps</a>
00	<a href="#">eaton-general-rotary-switch-t0-step-switch-symbol-005.eps</a>
	<a href="#">eaton-rotary-switches-front-plate-t0-step-switch-symbol-009.eps</a>

<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>FITTED WITH:</b>	0 (off) position Black thumb grip and front plate
<b>OPERATING FREQUENCY</b>	1200 Operations/h
<b>POLLUTION DEGREE</b>	3
<b>CLIMATIC PROOFING</b>	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	6000 V AC
<b>RATED UNINTERRUPTED CURRENT (IU)</b>	20 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>SWITCHING ANGLE</b>	45 °
<b>VOLTAGE PER CONTACT PAIR IN SERIES</b>	60 V
<b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>	4
<b>PRODUCT CATEGORY</b>	Control switches
<b>NUMBER OF POLES</b>	Three-pole
<b>RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ</b>	5.5 kW
<b>DEVICE CONSTRUCTION</b>	Built-in device
<b>SWITCH TYPE</b>	Level switch

<b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>	320 A, Contacts, 1 second
<b>ACTUATOR TYPE</b>	Toggle
<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>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
<b>EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID</b>	0 W
<b>MOUNTING POSITION</b>	As required
<b>MOUNTING METHOD</b>	Service distribution board mounting
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	6 kA
<b>DEGREE OF PROTECTION</b>	IP30
<b>OVERVOLTAGE CATEGORY</b>	III
<b>CONTROL CIRCUIT RELIABILITY</b>	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)

<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP30 NEMA 2
<b>NUMBER OF CONTACTS</b>	3
<b>SUITABLE FOR</b>	Distribution board installation Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID</b>	0.6 W
<b>NUMBER OF CONTACT UNITS</b>	2
<b>NUMBER OF CONTACTS IN SERIES AT DC-21A, 240 V</b>	1
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V</b>	3
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V</b>	1
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 240 V</b>	5
<b>FRONT SHIELD SIZE</b>	48x48 mm
<b>SAFE ISOLATION</b>	440 V AC, Between the contacts, According to EN 61140
<b>SCREW SIZE</b>	M3.5, Terminal screw
<b>INSCRIPTION</b>	0-3
<b>SHOCK RESISTANCE</b>	15 g, Mechanical, According to IEC/EN 60068-2-27, Half- sinusoidal shock 20 ms
<b>LIFESPAN, MECHANICAL</b>	400,000 Operations
<b>NUMBER OF SWITCH POSITIONS</b>	4
<b>LOAD RATING</b>	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) 1.3 x I <sub>e</sub> (with intermittent operation class 12, 60 % duty factor)
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS,</b>	10A, IU, (UL/CSA)

**GENERAL USE)**

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

**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** 100 A  
(COS PHI TO IEC 60947-3)

**RATED BREAKING  
CAPACITY AT 400/415 V** 110 A  
(COS PHI TO IEC 60947-3)

**RATED BREAKING  
CAPACITY AT 500 V (COS  
PHI TO IEC 60947-3)** 80 A

**RATED BREAKING  
CAPACITY AT 660/690 V** 60 A  
(COS PHI TO IEC 60947-3)

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

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

**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** 4.9 A

**CURRENT (IE) AT AC-3,  
660 V, 690 V**

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

10 A

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

10 A

**RATED OPERATIONAL  
CURRENT (IE) AT DC-21,  
240 V**

1 A

**SWITCHING CAPACITY  
(MAIN CONTACTS,  
GENERAL USE)**

16 A, Rated uninterrupted  
current max. (UL/CSA)

**SAFETY PARAMETER (EN  
ISO 13849-1)**

B10d values as per EN ISO  
13849-1, table C.1

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

5 A

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

10 A

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

5 A

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

10 A

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

10 A

**RATED OPERATIONAL  
CURRENT (IE) STAR-  
DELTA AT AC-3, 230 V**

20 A

**RATED OPERATIONAL  
CURRENT (IE) STAR-  
DELTA AT AC-3, 400 V**

20 A

**RATED OPERATIONAL  
CURRENT (IE) STAR-  
DELTA AT AC-3, 500 V**

15.6 A

**RATED OPERATIONAL  
CURRENT (IE) STAR-  
DELTA AT AC-3, 690 V**

8.5 A

**RATED OPERATIONAL  
CURRENT FOR SPECIFIED  
HEAT DISSIPATION (IN)**

20 A

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

3 kW

**RATED OPERATIONAL  
POWER AT AC-23A, 400 V,**

5.5 kW

**50 HZ****RATED OPERATIONAL****POWER AT AC-23A, 500 V, 50 HZ**

7.5 kW

**50 HZ****RATED OPERATIONAL****POWER AT AC-23A, 690 V, 50 HZ**

5.5 kW

**50 HZ****RATED OPERATIONAL****POWER AT AC-3, 415 V, 50 HZ**

5.5 kW

**Hz****RATED OPERATIONAL****POWER AT AC-3, 690 V, 50 HZ**

4 kW

**Hz****RATED OPERATIONAL****POWER STAR-DELTA AT 220/230 V, 50 HZ**

5.5 kW

**220/230 V, 50 HZ****RATED OPERATIONAL****POWER STAR-DELTA AT 380/400 V, 50 HZ**

7.5 kW

**RATED OPERATIONAL****POWER STAR-DELTA AT 500 V, 50 HZ**

7.5 kW

**500 V, 50 HZ****RATED OPERATIONAL****POWER STAR-DELTA AT 690 V, 50 HZ**

5.5 kW

**690 V, 50 HZ****TERMINAL CAPACITY****(FLEXIBLE WITH****FERRULE)**2 x (0.75 - 2.5) mm<sup>2</sup>,

ferrules to DIN 46228

1 x (0.75 - 2.5) mm<sup>2</sup>,

ferrules to DIN 46228

**SHORT-CIRCUIT CURRENT RATING (BASIC RATING)**

5 kA, SCCR (UL/CSA)

50A, max. Fuse, 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

**TERMINAL CAPACITY****(SOLID/FLEXIBLE WITH****FERRULE AWG)**

18 - 14

**TERMINAL CAPACITY****(SOLID/STRANDED)**1 x (1 - 2.5) mm<sup>2</sup>2 x (1 - 2.5) mm<sup>2</sup>**TIGHTENING TORQUE**

1 Nm, Screw terminals

8.8 lb-in, Screw terminals

**UNINTERRUPTED CURRENT**Rated uninterrupted current  $I_u$  is specified for max. cross-section.**DESIGN**

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