

# Specifications

Photo is representative

## Eaton 197411

Eaton Moeller® series T0 T0, 20 A, surface mounting, 4 contact unit(s), 90 °, maintained, 0-1, in steel enclosure, Design number 8344

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series T0 On-off switch
<b>CATALOG NUMBER</b>	197411
<b>EAN</b>	4015080895480
<b>PRODUCT LENGTH/DEPTH</b>	250 mm
<b>PRODUCT HEIGHT</b>	147 mm
<b>PRODUCT WIDTH</b>	200 mm
<b>PRODUCT WEIGHT</b>	1.61 kg
<b>CERTIFICATIONS</b>	IEC/EN 60947-3 IEC/EN 60204 IEC/EN 60947 VDE 0660
<b>MODEL CODE</b>	T0-4-8344/SE2

## Features & Functions

<b>FITTED WITH:</b>	Black thumb grip and front plate
<b>INSCRIPTION</b>	0-1
<b>NUMBER OF POLES</b>	Eight-pole

## General

<b>DEGREE OF PROTECTION</b>	NEMA 12
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP65
<b>LIFESPAN, MECHANICAL</b>	400,000 Operations
<b>MOUNTING METHOD</b>	Surface mounting
<b>MOUNTING POSITION</b>	As required
<b>NUMBER OF CONTACT UNITS</b>	4
<b>OPERATING FREQUENCY</b>	1200 Operations/h
<b>OVERVOLTAGE CATEGORY</b>	III
<b>POLLUTION DEGREE</b>	3
<b>PRODUCT CATEGORY</b>	On-Off switch
<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
<b>SWITCHING ANGLE</b>	90 °

## Climatic environmental conditions

<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>	-25 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>	40 °C

## Terminal capacities

<b>TERMINAL CAPACITY</b>	2 x (0.75 - 2.5) mm <sup>2</sup> , flexible with ferrules to DIN 46228 2 x (1 - 2.5) mm <sup>2</sup> , solid or stranded 1 x (0.75 - 2.5) mm <sup>2</sup> , flexible with ferrules to DIN 46228 1 x (1 - 2.5) mm <sup>2</sup> , solid or stranded
<b>SCREW SIZE</b>	M3.5, Terminal screw
<b>TIGHTENING TORQUE</b>	1 Nm, Screw terminals 8.8 lb-in, Screw terminals

## 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) 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  
CURRENT (IE) AT DC-13,  
CONTROL SWITCHES L/R  
= 50 MS** 10 A

**RATED OPERATIONAL  
CURRENT (IE) AT DC-21,** 1 A

## Short-circuit rating

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

**RATED SHORT-TIME  
WITHSTAND CURRENT  
(ICW)** 0.32 kA  
320 A, Contacts, 1 second

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

<b>240 V</b>	
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V</b>	5 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V</b>	10 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 240 V</b>	5 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V</b>	10 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V</b>	10 A
<b>RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 220/230 V</b>	20 A
<b>RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 380/400 V</b>	20 A
<b>RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 500 V</b>	15.6 A
<b>RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 690 V</b>	8.5 A
<b>RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ</b>	3 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ</b>	5.5 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ</b>	7.5 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ</b>	5.5 kW
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	5.5 kW
<b>RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ</b>	5.5 kW
<b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>	4 kW
<b>RATED OPERATIONAL</b>	5.5 kW

<b>POWER STAR-DELTA AT 220/230 V, 50 HZ</b>	
<b>RATED OPERATIONAL POWER STAR-DELTA AT 380/400 V, 50 HZ</b>	7.5 kW
<b>RATED OPERATIONAL POWER STAR-DELTA AT 500 V, 50 HZ</b>	7.5 kW
<b>RATED OPERATIONAL POWER STAR-DELTA AT 690 V, 50 HZ</b>	5.5 kW
<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.
<b>UNINTERRUPTED CURRENT</b>	Rated uninterrupted current Iu is specified for max. cross-section.

## Switching capacity

**NUMBER OF CONTACTS  
IN SERIES AT DC-21A, 240  
V**

1

**NUMBER OF CONTACTS  
IN SERIES AT DC-23A, 24 V**

1

**NUMBER OF CONTACTS  
IN SERIES AT DC-23A, 48 V**

2

**NUMBER OF CONTACTS  
IN SERIES AT DC-23A, 60 V**

3

**NUMBER OF CONTACTS  
IN SERIES AT DC-23A, 120  
V**

3

**NUMBER OF CONTACTS  
IN SERIES AT DC-23A, 240  
V**

5

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

130 A

**VOLTAGE PER CONTACT  
PAIR IN SERIES**

60 V

**LOAD RATING**

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

## Actuator

**ACTUATOR COLOR**

Black

**ACTUATOR FUNCTION**

Maintained

**ACTUATOR TYPE**

Short thumb-grip

## Contacts

**CONTROL CIRCUIT  
RELIABILITY**

1 failure per 100,000  
switching operations  
statistically determined, at  
24 V DC, 10 mA)

**NUMBER OF AUXILIARY  
CONTACTS (CHANGE-  
OVER CONTACTS)**

0

**NUMBER OF AUXILIARY  
CONTACTS (NORMALLY  
CLOSED CONTACTS)**

0

**NUMBER OF AUXILIARY  
CONTACTS (NORMALLY  
OPEN CONTACTS)**

0

## Design verification

**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**

UV resistance only in

<b>ULTRA-VIOLET (UV) RADIATION</b>	connection with protective shield.
<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>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.

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**10.13 MECHANICAL  
FUNCTION**

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The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

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## Resources

**CATALOGUES**

[P1-40 Switch-disconnectors](#)

[P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN](#)

**DECLARATIONS OF  
CONFORMITY**

[DA-DC-00004927.pdf](#)

[DA-DC-00004895.pdf](#)

**DRAWINGS**

[eaton-rotary-switches-t0-main-switch-dimensions-004.eps](#)

[eaton-general-totally-insulated-t0-main-switch-symbol.eps](#)

[eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-002.eps](#)

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

[eaton-rotary-switches-t0-changeover-switch-3d-drawing-002.eps](#)

**ECAD MODEL**

[DA-CE-ETN.T0-4-8344 SE2](#)

**INSTALLATION  
INSTRUCTIONS**

[IL008055ZU](#)

**WIRING DIAGRAMS**

[eaton-rotary-switches-on-off-switch-t0-on-off-switch-wiring-diagram-004.eps](#)



PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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