

# 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>OVERTVOLTAGE 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** 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 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** 10 A  
**L/R = 1 MS**

### RATED OPERATIONAL

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

### 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

**240 V**

**RATED OPERATIONAL**

**CURRENT (IE) AT DC-23A, 5 A**

**120 V**

**RATED OPERATIONAL**

**CURRENT (IE) AT DC-23A, 10 A**

**24 V**

**RATED OPERATIONAL**

**CURRENT (IE) AT DC-23A, 5 A**

**240 V**

**RATED OPERATIONAL**

**CURRENT (IE) AT DC-23A, 10 A**

**48 V**

**RATED OPERATIONAL**

**CURRENT (IE) AT DC-23A, 10 A**

**60 V**

**RATED OPERATIONAL**

**CURRENT (IE) STAR- 20 A**

**DELTA AT AC-3, 220/230 V**

**RATED OPERATIONAL**

**CURRENT (IE) STAR- 20 A**

**DELTA AT AC-3, 380/400 V**

**RATED OPERATIONAL**

**CURRENT (IE) STAR- 15.6 A**

**DELTA AT AC-3, 500 V**

**RATED OPERATIONAL**

**CURRENT (IE) STAR- 8.5 A**

**DELTA AT AC-3, 690 V**

**RATED OPERATIONAL**

**POWER AT AC-23A, 3 kW**

**220/230 V, 50 Hz**

**RATED OPERATIONAL**

**POWER AT AC-23A, 400 V, 5.5 kW**

**50 Hz**

**RATED OPERATIONAL**

**POWER AT AC-23A, 500 V, 7.5 kW**

**50 Hz**

**RATED OPERATIONAL**

**POWER AT AC-23A, 690 V, 5.5 kW**

**50 Hz**

**RATED OPERATIONAL**

**POWER AT AC-3, 380/400**

**5.5 kW**

**V, 50 Hz**

**RATED OPERATIONAL**

**POWER AT AC-3, 415 V, 50**

**5.5 kW**

**Hz**

**RATED OPERATIONAL**

**POWER AT AC-3, 690 V, 50**

**4 kW**

**Hz**

**RATED OPERATIONAL 5.5 kW**

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**POWER STAR-DELTA AT****220/230 V, 50 HZ****RATED OPERATIONAL****POWER STAR-DELTA AT** 7.5 kW  
**380/400 V, 50 HZ****RATED OPERATIONAL****POWER STAR-DELTA AT** 7.5 kW  
**500 V, 50 HZ****RATED OPERATIONAL****POWER STAR-DELTA AT** 5.5 kW  
**690 V, 50 HZ****RATED OPERATIONAL****VOLTAGE (UE) AT AC -** 690 V  
**MAX****RATED UNINTERRUPTED****CURRENT (IU)** 20 A**UNINTERRUPTED**  
**CURRENT**

Rated uninterrupted current lu is specified for max. cross-section.

**UNINTERRUPTED**  
**CURRENT**

Rated uninterrupted current lu is specified for max. cross-section.

## Switching capacity

<b>NUMBER OF CONTACTS</b>	
<b>IN SERIES AT DC-21A, 240 V</b>	1
<b>NUMBER OF CONTACTS</b>	
<b>IN SERIES AT DC-23A, 24 V</b>	1
<b>NUMBER OF CONTACTS</b>	
<b>IN SERIES AT DC-23A, 48 V</b>	2
<b>NUMBER OF CONTACTS</b>	
<b>IN SERIES AT DC-23A, 60 V</b>	3
<b>NUMBER OF CONTACTS</b>	
<b>IN SERIES AT DC-23A, 120 V</b>	3
<b>NUMBER OF CONTACTS</b>	
<b>IN SERIES AT DC-23A, 240 V</b>	5
<b>RATED MAKING</b>	
<b>CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)</b>	130 A
<b>VOLTAGE PER CONTACT PAIR IN SERIES</b>	60 V
<b>LOAD RATING</b>	<p>1.6 x <math>I_e</math> (with intermittent operation class 12, 40 % duty factor)</p> <p>1.3 x <math>I_e</math> (with intermittent operation class 12, 60 % duty factor)</p> <p>2 x <math>I_e</math> (with intermittent operation class 12, 25 % duty factor)</p>

## 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

## Actuator

<b>ACTUATOR COLOR</b>	Black
<b>ACTUATOR FUNCTION</b>	Maintained
<b>ACTUATOR TYPE</b>	Short thumb-grip

## Design verification

<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</b>	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**

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

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## Resources

	<a href="#">P1-40 Switch-disconnectors</a>
<b>CATALOGUES</b>	<a href="#">P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">DA-DC-00004927.pdf</a> <a href="#">DA-DC-00004895.pdf</a>
	<a href="#">eaton-rotary-switches-t0-main-switch-dimensions-004.eps</a> <a href="#">eaton-general-totally-insulated-t0-main-switch-symbol.eps</a>
<b>DRAWINGS</b>	<a href="#">eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-002.eps</a> <a href="#">eaton-general-rotary-switch-t0-step-switch-symbol.eps</a> <a href="#">eaton-rotary-switches-t0-changeover-switch-3d-drawing-002.eps</a>
<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.T0-4-8344_SE2</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL008055ZU</a>
<b>WIRING DIAGRAMS</b>	<a href="#">eaton-rotary-switches-on-off-switch-t0-on-off-switch-wiring-diagram-004.eps</a>

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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