

# Specifications

Photo is representative

## Eaton 197440

Eaton Moeller® series T0 T0, 20 A, surface mounting, 2 contact unit(s), 90 °, maintained, 0-1, in steel enclosure, Design number 15679

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series T0 On-off switch
<b>CATALOG NUMBER</b>	197440
<b>EAN</b>	4015080895770
<b>PRODUCT LENGTH/DEPTH</b>	200 mm
<b>PRODUCT HEIGHT</b>	127 mm
<b>PRODUCT WIDTH</b>	150 mm
<b>PRODUCT WEIGHT</b>	1.545 kg
<b>CERTIFICATIONS</b>	VDE 0660 IEC/EN 60204 IEC/EN 60947-3 IEC/EN 60947
<b>MODEL CODE</b>	T0-2-15679/SE1

## Features & Functions

<b>FITTED WITH:</b>	Black thumb grip and front plate
<b>INSCRIPTION</b>	0-1
<b>NUMBER OF POLES</b>	Three-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>	2
<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 1 x (1 - 2.5) mm <sup>2</sup> , solid or stranded 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
<b>SCREW SIZE</b>	M3.5, Terminal screw
<b>TIGHTENING TORQUE</b>	8.8 lb-in, Screw terminals 1 Nm, 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)** 320 A, Contacts, 1 second  
0.32 kA

**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

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

## 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)

1

## 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

<b>CATALOGUES</b>	<a href="#">P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN</a>
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<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">DA-DC-00004895.pdf</a> <a href="#">DA-DC-00004927.pdf</a>
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<b>DRAWINGS</b>	<a href="#">eaton-rotary-switches-t0-main-switch-dimensions-003.eps</a> <a href="#">eaton-rotary-switches-t0-changeover-switch-3d-drawing.eps</a> <a href="#">eaton-general-rotary-switch-t0-step-switch-symbol.eps</a> <a href="#">eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-002.eps</a> <a href="#">eaton-general-totally-insulated-t0-main-switch-symbol.eps</a>
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<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.T0-2-15679_SE1</a>
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<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL008054ZU</a>
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<b>WIRING DIAGRAMS</b>	<a href="#">eaton-rotary-switches-switch-t0-main-switch-wiring-diagram.eps</a>
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PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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