

# Specifications

## Eaton 015018

Eaton Moeller® series T0 On-Off switch, T0, 20 A, rear mounting, 5 contact unit(s), 10-pole, with black thumb grip and front plate

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series T0 On-off switch
<b>CATALOG NUMBER</b>	015018
<b>EAN</b>	4015080150183
<b>PRODUCT LENGTH/DEPTH</b>	156 mm
<b>PRODUCT HEIGHT</b>	48 mm
<b>PRODUCT WIDTH</b>	48 mm
<b>PRODUCT WEIGHT</b>	0.211 kg
<b>CERTIFICATIONS</b>	CSA-C22.2 No. 94 UL CSA VDE 0660 CE UL File No.: E36332 CSA Class No.: 3211-05 CSA-C22.2 No. 60947-4-1-14 IEC/EN 60204 UL 60947-4-1 UL Category Control No.: NLRV IEC/EN 60947 IEC/EN 60947-3 CSA File No.: 012528
<b>CATALOG NOTES</b>	Rated Short-time Withstand Current (I <sub>cw</sub> ) for a time of 1 second
<b>MODEL CODE</b>	T0-5-8346/Z



Powering Business Worldwide

## Features & Functions

**FITTED WITH:** Black thumb grip and front plate

**INSCRIPTION** 0-1

**NUMBER OF POLES** 10

## General

**DEGREE OF PROTECTION** NEMA 12

**DEGREE OF PROTECTION (FRONT SIDE)** IP65

**LIFESPAN, MECHANICAL** 400,000 Operations

**MOUNTING METHOD** Rear mounting

**MOUNTING POSITION** As required

**NUMBER OF CONTACT UNITS** 5

**OPERATING FREQUENCY** 1200 Operations/h

**OVERVOLTAGE CATEGORY** III

**POLLUTION DEGREE** 3

**PRODUCT CATEGORY** On-Off switch

**RATED IMPULSE WITHSTAND VOLTAGE (UIMP)** 6000 V AC

**SAFE ISOLATION** 440 V AC, Between the contacts, According to EN 61140

**SAFETY PARAMETER (EN ISO 13849-1)** B10d values as per EN ISO 13849-1, table C.1

**SHOCK RESISTANCE** 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms

**SUITABLE FOR** Branch circuits, suitable as motor disconnect, (UL/CSA)  
Intermediate mounting  
Ground mounting

**SWITCHING ANGLE** 90 °

## Climatic environmental conditions

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

## Terminal capacities

<b>TERMINAL CAPACITY</b>	18 - 14 AWG, solid or flexible with ferrule 1 x (0.75 - 2.5) mm <sup>2</sup> , flexible with ferrules to DIN 46228 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 (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-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 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 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 CURRENT RATING (BASIC RATING)** 50A, max. Fuse, SCCR (UL/CSA)  
5 kA, SCCR (UL/CSA)

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

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

<b>240 V</b>	
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V</b>	10 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) AT DC-23A, 120 V</b>	5 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 240 V</b>	5 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-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 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</b>	5.5 kW

---

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

---

<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 I <sub>u</sub> is specified for max. cross-section.
----------------------------------	---

---

## Switching capacity

<b>LOAD RATING</b>	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)

<b>NUMBER OF CONTACTS IN SERIES AT DC-21A, 240 V</b>	1
--	---

<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V</b>	1
---	---

<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V</b>	2
---	---

<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V</b>	3
---	---

<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V</b>	3
--	---

<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 240 V</b>	5
--	---

<b>SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)</b>	16 A, Rated uninterrupted current max. (UL/CSA)
--	---

<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b>	10A, IU, (UL/CSA)
---	-------------------

<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>	P300 (UL/CSA) A600 (UL/CSA)
--	--------------------------------

<b>RATED MAKING 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
---	------

## 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
--	--------

## 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>	Door coupling rotary drive

## Design verification

<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
<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>	UV resistance only in 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.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Resources

### BROCHURES

[Brochure - T Rotary Cam switch and P Switch-disconnector](#)

### CATALOGUES

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

### DECLARATIONS OF CONFORMITY

[DA-DC-00004895.pdf](#) [DA-DC-00004927.pdf](#)

### DRAWINGS

[eaton-rotary-switches-mounting-t0-step-switch-dimensions-022.eps](#)

	<a href="#">eaton-general-rotary-switch-t0-step-switch-symbol-003.eps</a>
	<a href="#">eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-002.eps</a>
<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.T0-5-8346 Z</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL03801021Z</a>
<b>INSTALLATION VIDEOS</b>	<a href="#">Eaton's P Switch-disconnectors used in a factory</a>
<b>MCAD MODEL</b>	<a href="#">DA-CS-t0 5 z</a> <a href="#">DA-CD-t0 5 z</a>
<b>PRODUCT NOTIFICATIONS</b>	<a href="#">MZ008006ZU_Orderform_Customized_Switch.pdf</a> <a href="#">MZ008005ZU_Orderform_Customized_Switch.pdf</a>
<b>WIRING DIAGRAMS</b>	<a href="#">eaton-rotary-switches-t0-on-off-switch-wiring-diagram-044.eps</a> <a href="#">eaton-rotary-switches-t0-on-off-switch-wiring-diagram-043.eps</a>

---

**PROJECT NAME:**

---

**PROJECT NUMBER:**

---

**PREPARED BY:**

---

**DATE:**

---



**Eaton Corporation plc**  
 Eaton House  
 30 Pembroke Road  
 Dublin 4, Ireland  
 Eaton.com

Follow us on social media to get the latest product and support information.

