

## Eaton 014009

Eaton Moeller® series T0 On-Off switch, T0, 20 A, rear mounting, 4 contact unit(s), 8-pole, with black thumb grip and front plate

PRODUCT NAME	Eaton Moeller® series T0 On-off switch
CATALOG NUMBER	014009
PRODUCT LENGTH/DEPTH	147 mm
PRODUCT HEIGHT	48 mm
PRODUCT WIDTH	48 mm
PRODUCT WEIGHT	0.187 kg
CERTIFICATIONS	CSA-C22.2 No. 94 UL 60947-4-1 UL IEC/EN 60947-3 IEC/EN 60204 CSA Class No.: 3211-05 CE CSA File No.: 012528 CSA CSA-C22.2 No. 60947-4-1- 14 UL Category Control No.: NLRV UL File No.: E36332 IEC/EN 60947 VDE 0660
CATALOG NOTES	Rated Short-time Withstand Current (lcw) for a time of 1 second



PRODUCT CATEGORY	On-Off switch
ACTUATOR COLOR	Black
ACTUATOR FUNCTION	Maintained
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
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 ULTRA-VIOLET (UV) RADIATION	UV resistance only in connection with protective shield.
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.

DECLARATIONS OF CONFORMITY	eaton-step-switch- declaration-of-conformity- uk251327en.pdf
00000	<u>IL03801021Z</u>
000	eaton-rotary-switches-on- off-switch-t0-on-off-switch- wiring-diagram-004.eps
00	eaton-rotary-switches- mounting-t0-step-switch- dimensions-021.eps
	eaton-rotary-switches- front-plate-t0-on-off- switch-symbol-002.eps

10.4 CLEARANCES AND Meets the product standard's require	
10.5 PROTECTIONDoes not apply, siAGAINST ELECTRICentire switchgearSHOCKbe evaluated.	
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS  Does not apply, si entire switchgear be evaluated.	
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS  Is the panel builded responsibility.	er's
<b>10.8 CONNECTIONS FOR</b> Is the panel builded responsibility.	er's
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH  Is the panel builded responsibility.	er's
10.9.3 IMPULSE Is the panel builded responsibility.	er's
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL  Is the panel builded responsibility.	er's
FITTED WITH:  Black thumb grip of front plate	and
	h
<b>OPERATING FREQUENCY</b> 1200 Operations/	П
OPERATING FREQUENCY 1200 Operations/IDDA DEGREE 3	11
	to IEC
POLLUTION DEGREE  3  Damp heat, cyclic, 60068-2-30 Damp heat, const.	to IEC
POLLUTION DEGREE  CLIMATIC PROOFING  Damp heat, cyclic, 60068-2-30 Damp heat, const. IEC 60068-2-78  RATED IMPULSE WITHSTAND VOLTAGE  6000 V AC	to IEC
POLLUTION DEGREE  CLIMATIC PROOFING  Damp heat, cyclic, 60068-2-30 Damp heat, const. IEC 60068-2-78  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW	to IEC
POLLUTION DEGREE  CLIMATIC PROOFING  Damp heat, cyclic, 60068-2-30 Damp heat, const. IEC 60068-2-78  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED OPERATIONAL POWER STAR-DELTA AT 5.5 kW  Too V, 50 HZ  RATED OPERATIONAL POWER STAR-DELTA AT 5.5 kW	to IEC
POLLUTION DEGREE  CLIMATIC PROOFING  Damp heat, cyclic, 60068-2-30 Damp heat, const. IEC 60068-2-78  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED OPERATIONAL POWER STAR-DELTA AT 5.5 kW  FOO V, 50 HZ  RATED OPERATIONAL POWER STAR-DELTA AT 690 V, 50 HZ  RATED PERMANENT  20 A	to IEC
POLLUTION DEGREE  CLIMATIC PROOFING  Damp heat, cyclic, 60068-2-30 Damp heat, const. IEC 60068-2-78  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED OPERATIONAL POWER STAR-DELTA AT 500 V, 50 HZ  RATED OPERATIONAL POWER STAR-DELTA AT 690 V, 50 HZ  RATED PERMANENT CURRENT AT AC-21, 400 V  RATED UNINTERRUPTED  20 A	to IEC
POLLUTION DEGREE  CLIMATIC PROOFING  Damp heat, cyclic, 60068-2-30 Damp heat, const. IEC 60068-2-78  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED OPERATIONAL POWER STAR-DELTA AT 5.5 kW  500 V, 50 HZ  RATED OPERATIONAL POWER STAR-DELTA AT 690 V, 50 HZ  RATED PERMANENT CURRENT AT AC-21, 400 V  RATED UNINTERRUPTED CURRENT (IU)  STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT  Damp heat, cyclic, 600068-2-30 Damp heat, cyclic, 600068-2-78 Damp heat, const. IEC 600068-2-78 Dam	to IEC
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RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	5.5 kW
DEVICE CONSTRUCTION	Built-in device fixed built- in technique
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	320 A, Contacts, 1 second 0.32 kA
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
DESIGN	8344
MOUNTING POSITION	As required
ACTUATOR TYPE	Door coupling rotary drive
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	0.5 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE	1 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	3 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	1.5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	3 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	7.5 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	7.5 HP
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER	0.6 W

POLE, CURRENT- DEPENDENT PVID	
NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS)	
NUMBER OF AUXILIARY CONTACTS (NORMALLY 0 CLOSED CONTACTS)	
RATED CONDITIONAL SHORT-CIRCUIT CURRENT 6 kA (IQ)	
OVERVOLTAGE III	
CONTROL CIRCUIT switching of statistically 24 V DC, 10	perations determined, at
DEGREE OF PROTECTION (FRONT SIDE)	
NUMBER OF POLES 8	
MOUNTING METHOD Rear mount	ting
<b>DEGREE OF PROTECTION</b> NEMA 12	
SUITABLE FOR (UL/CSA) Ground mo	,
NUMBER OF SWITCHES 1	
SAFE ISOLATION 440 V AC, Bo contacts, Ac 61140	etween the cording to EN
SCREW SIZE M3.5, Termi	inal screw
INSCRIPTION 0-1	
SHOCK RESISTANCE  15 g, Mecha According to 60068-2-27, sinusoidal s	o IEC/EN . Half-
SHOCK RESISTANCE According to 60068-2-27,	o IEC/EN Half- hock 20 ms
SHOCK RESISTANCE  According to 60068-2-27, sinusoidal s  LIFESPAN, MECHANICAL  1.6 x l <sub>e</sub> (with operation c duty factor) 1.3 x l <sub>e</sub> (with operation c duty factor) 2 x l <sub>e</sub> (with i	o IEC/EN Half- hock 20 ms erations n intermittent lass 12, 40 % n intermittent lass 12, 60 % ntermittent
SHOCK RESISTANCE  According to 60068-2-27, sinusoidal s  LIFESPAN, MECHANICAL  1.6 x l <sub>e</sub> (with operation c duty factor) 1.3 x l <sub>e</sub> (with operation c duty factor) 2 x l <sub>e</sub> (with i operation c	o IEC/EN Half- Hock 20 ms erations n intermittent lass 12, 40 % n intermittent lass 12, 60 % ntermittent lass 12, 25 %

PILOT DUTY)	
TERMINAL CAPACITY	1 x (1 - 2.5) mm², solid or stranded 1 x (0.75 - 2.5) mm², flexible with ferrules to DIN 46228 2 x (0.75 - 2.5) mm², flexible with ferrules to DIN 46228 18 - 14 AWG, solid or flexible with ferrule 2 x (1 - 2.5) mm², solid or stranded
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
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF CONTACT UNITS	4
NUMBER OF CONTACTS IN SERIES AT DC-21A, 240 V	1
NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V	3
NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V	1
NUMBER OF CONTACTS IN SERIES AT DC-23A, 240 V	5
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 (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 MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN	130 A

60947-3)	
RATED OPERATING VOLTAGE (UE) - MAX	690 V
RATED OPERATING VOLTAGE (UE) - MIN	690 V
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	5 kA, SCCR (UL/CSA) 50A, max. Fuse, 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
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	1 A

CURRENT (IE) AT DC-21, 240 V	
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, 220/230 V	20 A
RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 380/400 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, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	4 kW

RATED OPERATIONAL POWER STAR-DELTA AT 220/230 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER STAR-DELTA AT 380/400 V, 50 HZ	7.5 kW
TIGHTENING TORQUE	8.8 lb-in, Screw terminals 1 Nm, Screw terminals
UNINTERRUPTED CURRENT	Rated uninterrupted current lu is specified for max. cross-section.
HOUSING COLOR	Black
HOUSING MATERIAL	Plastic

**PROJECT NAME: PROJECT NUMBER: PREPARED BY:** 



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