



Eaton 009389

Eaton Moeller series T0 ON-OFF button, 20 A, Rear mounting, 1 contact unit(s), Contacts: 2, Momentary, 0><1, Design: 8

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PRODUCT NAME	Eaton Moeller® series T0 Accessory ON OFF button
CATALOG NUMBER	009389
PRODUCT LENGTH/DEPTH	118 mm
PRODUCT HEIGHT	48 mm
PRODUCT WIDTH	48 mm
PRODUCT WEIGHT	0.112 kg
CERTIFICATIONS	CSA IEC/EN 60204 UL File No.: E36332 CSA File No.: 012528 CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947 IEC/EN 60947-3 VDE 0660 UL 60947-4-1 CE UL Category Control No.: NLRV CSA-C22.2 No. 94 UL CSA Class No.: 3211-05
CATALOG NOTES	Rated Short-time Withstand Current (Icw) for a time of 1 second

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TYPE	ON-OFF button
ACTUATOR FUNCTION	Spring-return from both directions With 0 (Off) position Momentary
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	Does not apply, since the

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DECLARATIONS OF CONFORMITY	eaton-step-switch-declaration-of-conformity-uk251327en.pdf
□□□□□	IL03801021Z
□□□	eaton-rotary-switches-t0-on-off-button-wiring-diagram-002.eps
□□□	eaton-rotary-switches-t0-on-off-button-wiring-diagram.eps
□□	eaton-rotary-switches-mounting-t0-step-switch-dimensions-018.eps
□□	eaton-rotary-switches-front-plate-t0-on-off-button-symbol-003.eps

PROTECTION OF ASSEMBLIES	entire switchgear needs to be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
FITTED WITH:	0 (off) position Black thumb grip and front plate
OPERATING FREQUENCY	1200 Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
RATED UNINTERRUPTED CURRENT (IU)	20 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
SWITCHING ANGLE	45 °
VOLTAGE PER CONTACT PAIR IN SERIES	60 V
WIDTH IN NUMBER OF MODULAR SPACINGS	0
PRODUCT CATEGORY	Control switches
NUMBER OF POLES	Single-pole
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 Hz	5.5 kW

DEVICE CONSTRUCTION	Built-in device
SWITCH TYPE	On/Off switch
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	320 A, Contacts, 1 second
ACTUATOR TYPE	Toggle
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
MOUNTING POSITION	As required
MOUNTING METHOD	Rear mounting
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	6 kA
DEGREE OF PROTECTION	IP65 NEMA 1 NEMA 12
OVERVOLTAGE CATEGORY	III
CONTROL CIRCUIT	1 failure per 100,000

RELIABILITY	switching operations statistically determined, at 24 V DC, 10 mA)
DEGREE OF PROTECTION (FRONT SIDE)	IP65 NEMA 12
NUMBER OF CONTACTS	2
SUITABLE FOR	Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Intermediate mounting Front mounting
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.6 W
NUMBER OF CONTACT UNITS	1
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
FRONT SHIELD SIZE	48x48 mm
SAFE ISOLATION	440 V AC, Between the contacts, According to EN 61140
SCREW SIZE	M3.5, Terminal screw
INSCRIPTION	0><1
SHOCK RESISTANCE	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
LIFESPAN, MECHANICAL	400,000 Operations
NUMBER OF SWITCH POSITIONS	2
LOAD RATING	1.3 x I _e (with intermittent operation class 12, 60 % duty factor) 1.6 x I _e (with intermittent operation class 12, 40 % duty factor) 2 x I _e (with intermittent operation class 12, 25 % duty factor)

SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, IU, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P300 (UL/CSA) A600 (UL/CSA)
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 60947-3)	130 A
RATED OPERATING VOLTAGE (UE) AT AC - MAX	690 V
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, 240 V	1 A
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
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, 230 V	20 A
RATED OPERATIONAL	
CURRENT (IE) STAR- DELTA AT AC-3, 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	
	5.5 kW

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

**TERMINAL CAPACITY
(FLEXIBLE WITH
FERRULE)** 2 x (0.75 - 2.5) mm²,
ferrules to DIN 46228
1 x (0.75 - 2.5) mm²,
ferrules to DIN 46228

**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

**TERMINAL CAPACITY
(SOLID/FLEXIBLE WITH
FERRULE AWG)** 18 - 14

**TERMINAL CAPACITY
(SOLID/STRANDED)** 1 x (1 - 2.5) mm²
2 x (1 - 2.5) mm²

TIGHTENING TORQUE 8.8 lb-in, Screw terminals
1 Nm, Screw terminals

**UNINTERRUPTED
CURRENT** Rated uninterrupted
current I_u is specified for
max. cross-section.

DESIGN 8

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