Specifications

Photo is representative

Eaton 013965

Eaton Moeller® series T0 Step switches, T0, 20 A, flush mounting, 4 contact unit(s), Contacts: 8, 30 °, maintained, With 0 (Off) position, 0-8, Design number 8246

General specification	ons
PRODUCT NAME	Eaton Moeller® series T0 Step switch
CATALOG NUMBER	013965
EAN	4015080139652
PRODUCT LENGTH/DEPTH	105 mm
PRODUCT HEIGHT	48 mm
PRODUCT WIDTH	48 mm
PRODUCT WEIGHT	0.156 kg
CERTIFICATIONS	UL 60947-4-1 VDE 0660 CSA-C22.2 No. 60947-4-1- 14 UL Category Control No.: NLRV IEC/EN 60947-3 CSA File No.: 012528 CSA-C22.2 No. 94 IEC/EN 60947 CSA CE CSA Class No.: 3211-05 UL IEC/EN 60204 UL File No.: E36332
CATALOG NOTES	Rated Short-time Withstand Current (lcw) for a time of 1 second
MODEL CODE	T0-4-8246/E



Features & Functions	
FITTED WITH:	Black thumb grip and front plate 0 (off) position
INSCRIPTION	0-8
NUMBER OF POLES	Single-pole

General	
Gerierai	IP65
DEGREE OF PROTECTION	NEMA 1
	NEMA 12
DEGREE OF PROTECTION	IP65
(FRONT SIDE)	NEMA 12
LIFESPAN, MECHANICAL	400,000 Operations
MOUNTING METHOD	Flush mounting
MOUNTING POSITION	As required
NUMBER OF CONTACT UNITS	4
OPERATING FREQUENCY	1200 Operations/h
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	Control switches
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
	440 V AC, Between the
SAFE ISOLATION	contacts, According to EN 61140
SAFETY PARAMETER (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
	15 g, Mechanical, According to IEC/EN
SHOCK RESISTANCE	60068-2-27, Half-
	sinusoidal shock 20 ms
	Branch circuits, suitable as
SUITABLE FOR	motor disconnect, (UL/CSA)
	Front mounting
SWITCHING ANGLE	30 °
ТҮРЕ	Step switch

Climatic environmental conditions	
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Terminal capacities	
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 2.5) mm ² , ferrules to DIN 46228 2 x (0.75 - 2.5) mm ² , ferrules to DIN 46228
TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG)	18 - 14
TERMINAL CAPACITY (SOLID/STRANDED)	2 x (1 - 2.5) mm ² 1 x (1 - 2.5) mm ²
SCREW SIZE	M3.5, Terminal screw
TIGHTENING TORQUE	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 OPERATING VOLTAGE (UE) AT AC - MAX	690 V
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,	10 A

CONTROL SWITCHES L/R

Short-circuit rating	
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	6 kA
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	320 A, Contacts, 1 second
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 DC-21, 1 A 240 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 10 A 24 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) AT DC-23A, 5 A 120 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 240 V RATED OPERATIONAL
CURRENT (IE) AT DC-23A, 10 A 24 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) AT DC-23A, 5 A 120 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 240 V
CURRENT (IE) AT DC-23A, 10 A 48 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 10 A 60 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 120 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 240 V
CURRENT (IE) AT DC-23A, 10 A 60 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 120 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 240 V
CURRENT (IE) AT DC-23A, 5 A 120 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 240 V
CURRENT (IE) AT DC-23A, 5 A 240 V
RATED OPERATIONAL
CURRENT (IE) STAR- 20 A DELTA AT AC-3, 230 V
RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 400 V
RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 500 V
RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 690 V
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
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

POWER STAR-DELTA AT 220/230 V, 50 HZ	
RATED OPERATIONAL POWER STAR-DELTA AT 380/400 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER STAR-DELTA AT 500 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER STAR-DELTA AT 690 V, 50 HZ	5.5 kW
RATED UNINTERRUPTED CURRENT (IU)	20 A
UNINTERRUPTED CURRENT	Rated uninterrupted current lu is specified for max. cross-section.

Switching capacity	
LOAD RATING	$1.6 \times l_e$ (with intermittent operation class 12, 40 % duty factor) $1.3 \times l_e$ (with intermittent operation class 12, 60 % duty factor) $2 \times l_e$ (with intermittent operation class 12, 25 % duty factor)
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
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	16 A, Rated uninterrupted current max. (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, IU, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P300 (UL/CSA) A600 (UL/CSA)
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	130 A
VOLTAGE PER CONTACT PAIR IN SERIES	60 V

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

Contacts	
CONTROL CIRCUIT RELIABILITY	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
NUMBER OF CONTACTS	8

PAIR IN SERIES

Actuator	
ACTUATOR FUNCTION	Maintained With 0 (Off) position
ACTUATOR TYPE	Toggle
NUMBER OF SWITCH POSITIONS	9

Design verification	
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0.6 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	20 A
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	0 W
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.
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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls 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	ls the panel builder's responsibility.
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.

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-00004927.pdf DA-DC-00004895.pdf
DRAWINGS	eaton-rotary-switches-mounting-t0-step-switch- dimensions-027.eps

ul-rotary-switch-t0-step-switch-
switches-front-plate-t0-step-switch-
-switch-eplan-013965.edz
tch-disconnectors used in a factory
DA-CD-t0 4 e
Orderform Customized Switch.pdf
Orderform Customized Switch.pdf
switches-t0-step-switch-wiring- eps switches-t0-step-switch-wiring- eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



Eaton Corporation plc

Eaton House 30 Pembroke Road Dublin 4, Ireland Eaton.com

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