

Eaton 050713

Eaton Moeller® series T0 Changeover switch, 20 A, service distr. board mounting, 3 contact units, Contacts: 6, 45 °, momentary, 0 (Off) position, spring-return, 2>0<1

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PRODUCT NAME	Eaton Moeller® series T0 Changeover switch	
CATALOG NUMBER	050713	
PRODUCT LENGTH/DEPTH	101 mm	
PRODUCT HEIGHT	55 mm	
PRODUCT WIDTH	54 mm	
PRODUCT WEIGHT	0.155 kg	
CERTIFICATIONS	CSA File No.: 012528 IEC/EN 60947 CSA CSA-C22.2 No. 94 CSA Class No.: 3211-05 IEC/EN 60204 UL CSA-C22.2 No. 60947-4-1- 14 UL 60947-4-1 CE IEC/EN 60947-3 UL File No.: E36332 VDE 0660 UL Category Control No.: NLRV	
CATALOG NOTES	Rated Short-time Withstand Current (Icw) for a time of 1 second	



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TYPE	Changeover switch
PRODUCT CATEGORY	Control switches
ACTUATOR FUNCTION	Momentary Spring-return from both directions to 0 With 0 (Off) position
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	ls 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	Meets the product standard's requirements.
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.

DECLARATIONS OF CONFORMITY	eaton-step-switch- declaration-of-conformity- uk251327en.pdf
00000	<u>IL03801006Z</u>
000	eaton-rotary-switches- changeover-switch-t0- changeover-switch-wiring- diagram-009.eps
	eaton-rotary-switches- mounting-t0-step-switch- dimensions.eps
	eaton-rotary-switches- mounting-t0-step-switch- dimensions-004.eps
00	eaton-rotary-switches- front-plate-t0-changeover- switch-symbol-013.eps
	eaton-rotary-switches- mounting-t0-changeover- switch-3d-drawing.eps
	eaton-general-rotary- switch-t0-step-switch- symbol-005.eps

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	ls the panel builder's responsibility.	
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.	
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.	
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.	
FITTED WITH:	Black thumb grip and front plate 0 (off) position Retraction in 0-position	
FITTED WITH: OPERATING FREQUENCY	front plate 0 (off) position	
	front plate 0 (off) position Retraction in 0-position	
OPERATING FREQUENCY	front plate 0 (off) position Retraction in 0-position 1200 Operations/h	
OPERATING FREQUENCY POLLUTION DEGREE	front plate 0 (off) position Retraction in 0-position 1200 Operations/h 3 Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to	
OPERATING FREQUENCY POLLUTION DEGREE CLIMATIC PROOFING	front plate 0 (off) position Retraction in 0-position 1200 Operations/h 3 Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78	
OPERATING FREQUENCY POLLUTION DEGREE CLIMATIC PROOFING ENCLOSURE MATERIAL RATED IMPULSE WITHSTAND VOLTAGE	front plate 0 (off) position Retraction in 0-position 1200 Operations/h 3 Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Plastic	
OPERATING FREQUENCY POLLUTION DEGREE CLIMATIC PROOFING ENCLOSURE MATERIAL RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	front plate 0 (off) position Retraction in 0-position 1200 Operations/h 3 Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Plastic 6000 V AC	
OPERATING FREQUENCY POLLUTION DEGREE CLIMATIC PROOFING ENCLOSURE MATERIAL RATED IMPULSE WITHSTAND VOLTAGE (UIMP) ACTUATOR TYPE AMBIENT OPERATING	front plate 0 (off) position Retraction in 0-position 1200 Operations/h 3 Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Plastic 6000 V AC Short thumb-grip	
OPERATING FREQUENCY POLLUTION DEGREE CLIMATIC PROOFING ENCLOSURE MATERIAL RATED IMPULSE WITHSTAND VOLTAGE (UIMP) ACTUATOR TYPE AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING	front plate 0 (off) position Retraction in 0-position 1200 Operations/h 3 Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Plastic 6000 V AC Short thumb-grip 50 °C	
OPERATING FREQUENCY POLLUTION DEGREE CLIMATIC PROOFING ENCLOSURE MATERIAL RATED IMPULSE WITHSTAND VOLTAGE (UIMP) ACTUATOR TYPE AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE - MIN	front plate 0 (off) position Retraction in 0-position 1200 Operations/h 3 Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Plastic 6000 V AC Short thumb-grip 50 °C -25 °C	

HZ, 1-PHASE	
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 POLE, CURRENT- DEPENDENT PVID	0.6 W
NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF CONTACT UNITS	3
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	320 A, Contacts, 1 second
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
MOUNTING POSITION	As required
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	6 kA
MOUNTING METHOD	Service distribution board mounting
OVERVOLTAGE CATEGORY	III

CONTROL CIRCUIT RELIABILITY	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)		
NUMBER OF POLES	3		
DEGREE OF PROTECTION	IP30		
NUMBER OF CONTACTS	6		
MODEL	Reverser		
DEGREE OF PROTECTION (FRONT SIDE)	IP30 NEMA 2		
INSCRIPTION	2>0<1		
LIFESPAN, MECHANICAL	400,000 Operations		
SAFE ISOLATION	440 V AC, Between the contacts, According to EN 61140		
RATED OPERATIONAL CURRENT (IE)	8.5 A at AC-3, 690 V stardelta 15.6 A at AC-3, 500 V stardelta 20 A at AC-3, 230 V stardelta 20 A at AC-3, 400 V stardelta		
SCREW SIZE	M3.5, Terminal screw		
SHOCK RESISTANCE	15 g, Mechanical, According to IEC/EN 60068-2-27, Half- sinusoidal shock 20 ms		
LOAD RATING	1.3 x l _e (with intermittent operation class 12, 60 % duty factor) 2 x l _e (with intermittent operation class 12, 25 % duty factor) 1.6 x l _e (with intermittent operation class 12, 40 % duty factor)		
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, IU, (UL/CSA)		
TIGHTENING TORQUE	1 Nm, Screw terminals 8.8 lb-in, Screw terminals		
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600 (UL/CSA) P300 (UL/CSA)		
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	1		

IN SERIES AT DC-23A, 24 V	
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 60947-3)	130 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
SWITCHING CAPACITY	16 A, Rated uninterrupted

(MAIN CONTACTS, GENERAL USE)	current max. (UL/CSA)
SAFETY PARAMETER (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
SHORT-CIRCUIT PROTECTION RATING	20 A gG/gL, Fuse, Contacts
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 2.5) mm², ferrules to DIN 46228 2 x (0.75 - 2.5) mm², ferrules to DIN 46228
SUITABLE FOR	Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Distribution board installation Front mounting
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
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 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	7.5 kW

POWER AT AC-23A, 500 V, 50 HZ	
RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	4 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
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 OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
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
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT)	10 kA, SCCR (UL/CSA) 20 A, Class J, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	50A, max. Fuse, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG)	18 - 14
TERMINAL CAPACITY (SOLID/STRANDED)	1 x (1 - 2.5) mm ² 2 x (1 - 2.5) mm ²
UNINTERRUPTED CURRENT	Rated uninterrupted current lu is specified for max. cross-section.
DESIGN	8216

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







