Specifications

Photo is representative

Eaton 218963

Eaton Moeller® series T0 On-Off switch, 3 pole + N + 1 N/O + 1 N/C, 20 A, 90 $^{\circ}$, surface mounting T0-3-15680/I1

General specifications		
PRODUCT NAME	Eaton Moeller® series T0 On-off switch	
CATALOG NUMBER	218963	
MODEL CODE	T0-3-15680/I1	
EAN	4015082189631	
PRODUCT LENGTH/DEPTH	137 mm	
PRODUCT HEIGHT	122 mm	
PRODUCT WIDTH	80 mm	
PRODUCT WEIGHT	0.288 kg	
CERTIFICATIONS	EN 60204 EN 60947 IEC 60947 VDE IEC/EN 60947 VDE 0660 IEC/EN 60204 IEC/EN 60947-3	
CATALOG NOTES	Rated Short-time Withstand Current (Icw) for a time of 1 second	
GLOBAL CATALOG	218963	



Product specifications	5
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	Does not apply, since the entire switchgear needs to
IMPACT	be evaluated.

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	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	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
FITTED WITH:	Black thumb grip and front plate
OPERATING FREQUENCY	1200 Operations/h
POLLUTION DEGREE	3
	Damp heat, cyclic, to IEC 60068-2-30
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78
CLIMATIC PROOFING RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	Damp heat, constant, to
RATED IMPULSE WITHSTAND VOLTAGE	Damp heat, constant, to IEC 60068-2-78
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) RATED OPERATIONAL POWER STAR-DELTA AT	Damp heat, constant, to IEC 60068-2-78 6000 V AC
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) RATED OPERATIONAL POWER STAR-DELTA AT 500 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT	Damp heat, constant, to IEC 60068-2-78 6000 V AC 7.5 kW
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	Damp heat, constant, to IEC 60068-2-78 6000 V AC 7.5 kW 5.5 kW
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 PERMANENT	Damp heat, constant, to IEC 60068-2-78 6000 V AC 7.5 kW 20 A
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 PERMANENT CURRENT AT AC-23, 400 V RATED UNINTERRUPTED	Damp heat, constant, to IEC 60068-2-78 6000 V AC 7.5 kW 20 A 13.3 A

CURRENT-DEPENDENT PVS	
SWITCHING ANGLE	90 °
SWITCHING POWER AT 400 V	5.5 kW
VOLTAGE PER CONTACT PAIR IN SERIES	60 V
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	5.5 kW
DEVICE CONSTRUCTION	Complete device in housing
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	320 A, Contacts, 1 second 0.32 kA
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
DESIGN	15680
MOUNTING POSITION	As required
ACTUATOR TYPE	Short thumb-grip
AMBIENT OPERATING TEMPERATURE - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0.6 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)	1
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	6 kA

OVERVOLTAGE CATEGORY	III
CONTROL CIRCUIT RELIABILITY	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
DEGREE OF PROTECTION (FRONT SIDE)	IP65
NUMBER OF POLES	4
MOUNTING METHOD	Surface mounting
DEGREE OF PROTECTION	NEMA 12
SUITABLE FOR	Ground mounting
NUMBER OF SWITCHES	1
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
LOAD RATING	$1.3 \times l_e$ (with intermittent operation class 12, 60 % duty factor) $2 \times l_e$ (with intermittent operation class 12, 25 % duty factor) $1.6 \times l_e$ (with intermittent operation class 12, 40 % duty factor)
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 2 x (1 - 2.5) mm², solid or stranded
SAFETY PARAMETER (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF CONTACT UNITS	3

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 60947-3)	130 A
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 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 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 (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

CURRENT (IE) STAR- DELTA AT AC-3, 500 V RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 690 V RATED OPERATIONAL CURRENT FOR SPECIFIED CURRENT FOR SPECIFIED CURRENT FOR SPECIFIED CHEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 5.5 kW 220/230 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 5.5 kW 220/230 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 5.5 kW 220/230 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW 2380/400 V, 50 HZ		
CURRENT (IE) STAR- DELTA AT AC-3, 690 V RATED OPERATIONAL CURRENT FOR SPECIFIED POWER AT AC-23A, 220/230 V, 50 HZ RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ RATED OPERATIONAL POWER AT AC-23A, 500 V, 60 HZ RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT 5.5 kW RATED OPERATIONAL POWER STAR-DELTA AT 5.5 kW RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW	RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 500 V	15.6 A
CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL 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 RATED OPERATIONAL POWER AT AC-3, 380/400 5.5 kW 7, 50 HZ 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 RATED OPERATIONAL POWER AT AC-3, 690 V, 50 4 kW HZ 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 RIGHTENING TORQUE 1 Nm, Screw terminals Rated uninterrupted	RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 690 V	8.5 A
POWER AT AC-23A, 3 kW POWER AT AC-23A, 400 V, 5.5 kW POWER AT AC-23A, 400 V, 5.5 kW POWER AT AC-23A, 500 V, 7.5 kW POWER AT AC-23A, 500 V, 7.5 kW POWER AT AC-23A, 690 V, 5.5 kW POWER AT AC-23A, 690 V, 5.5 kW POWER AT AC-3, 380/400 5.5 kW POWER AT AC-3, 415 V, 50 5.5 kW POWER AT AC-3, 690 V, 50 4 kW POWER STAR-DELTA AT 5.5 kW POWER STAR-DELTA AT 7.5 kW	RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	20 A
POWER AT AC-23A, 400 V, 5.5 kW RATED OPERATIONAL POWER AT AC-23A, 500 V, 7.5 kW RATED OPERATIONAL POWER AT AC-23A, 690 V, 5.5 kW RATED OPERATIONAL POWER AT AC-3, 380/400 5.5 kW V, 50 HZ 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 RATED OPERATIONAL POWER STAR-DELTA AT 5.5 kW RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW	RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ	3 kW
POWER AT AC-23A, 500 V, 7.5 kW RATED OPERATIONAL POWER AT AC-23A, 690 V, 5.5 kW RATED OPERATIONAL POWER AT AC-3, 380/400 5.5 kW V, 50 HZ 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 RATED OPERATIONAL POWER STAR-DELTA AT 5.5 kW RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW	RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	5.5 kW
POWER AT AC-23A, 690 V, 5.5 kW RATED OPERATIONAL POWER AT AC-3, 380/400 5.5 kW V, 50 HZ 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 RATED OPERATIONAL POWER STAR-DELTA AT 5.5 kW RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW	RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ	7.5 kW
POWER AT AC-3, 380/400 5.5 kW V, 50 HZ 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 RATED OPERATIONAL POWER STAR-DELTA AT 5.5 kW RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW	RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ	5.5 kW
POWER AT AC-3, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ RATED OPERATIONAL POWER STAR-DELTA AT POWER STAR-DELTA AT POWER STAR-DELTA AT POWER STAR-DELTA AT RATED OPERATIONAL RATED OPERAT	RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	5.5 kW
POWER AT AC-3, 690 V, 50 4 kW HZ RATED OPERATIONAL POWER STAR-DELTA AT 5.5 kW RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW RATED OPERATIONAL POWER STAR-DELTA AT 7.5 kW RATED OPERATIONAL RA	RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	5.5 kW
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 FIGHTENING TORQUE 1 Nm, Screw terminals Rated uninterrupted	RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	4 kW
POWER STAR-DELTA AT 7.5 kW 380/400 V, 50 HZ FIGHTENING TORQUE 1 Nm, Screw terminals Rated uninterrupted	RATED OPERATIONAL POWER STAR-DELTA AT 220/230 V, 50 HZ	5.5 kW
Rated uninterrupted	RATED OPERATIONAL POWER STAR-DELTA AT 380/400 V, 50 HZ	7.5 kW
Rated uninterrupted	TIGHTENING TORQUE	1 Nm, Screw terminals
current lu is specified for	UNINTERRUPTED CURRENT	current lu is specified for

Resources	
BROCHURES	Brochure - T Rotary Cam switch and P Switch- disconnector
CATALOGS	P1-40 Switch-disconnectors P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN
DECLARATIONS	DA-DC-00004895.pdf

OF CONFORMITY	<u>DA-DC-00004927.pdf</u>
	eaton-rotary-switches-dimensions-t0-step- switch-dimensions.eps
	eaton-rotary-switches-t0-changeover-switch-dimensions-002.eps
DRAWINGS	eaton-general-totally-insulated-t0-main-switch- symbol.eps
DRAWINGS	eaton-general-rotary-switch-t0-step-switch- symbol.eps
	eaton-rotary-switches-front-plate-t0-on-off- switch-symbol-002.eps
	eaton-rotary-switches-surface-mounting-t0- changeover-switch-3d-drawing.eps
ECAD MODEL	ETN.T0-3-15680 I1
INSTALLATION INSTRUCTIONS	<u>IL03801007Z2021_06.pdf</u>
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CD-bauform4 DA-CS-bauform4
PRODUCT	MZ008005ZU_Orderform_Customized_Switch.pdf
NOTIFICATIONS	MZ008006ZU_Orderform_Customized_Switch.pdf
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 218963
WIRING DIAGRAMS	eaton-rotary-switches-main-switch-t0-main- switch-wiring-diagram.eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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