Eaton 222727

Eaton Moeller® series T0 Multi-speed switches, T0, 20 A, surface mounting, 4 contact unit(s), Contacts: 7, 60 °, maintained, With 0 (Off) position, 0-1-2, Design number 8450

PRODUCT NAME	Eaton Moeller® series T0 Multi-speed switch
CATALOG NUMBER	222727
PRODUCT LENGTH/DEPTH	137 mm
PRODUCT HEIGHT	122 mm
PRODUCT WIDTH	80 mm
PRODUCT WEIGHT	0.36 kg
CERTIFICATIONS	VDE 0660 IEC/EN 60947-3 IEC/EN 60204 IEC/EN 60947
CATALOG NOTES	Rated Short-time Withstand Current (Icw) for a time of 1 second



ТҮРЕ	Multi-speed switch	<u>IL038</u>
PRODUCT CATEGORY	Control switches	<u>eato</u>
FEATURES	Complete device in housing	<u>mult</u> diagr
ACTUATOR FUNCTION	With 0 (Off) position Maintained	<u>eator</u> <u>multi</u>
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.	diagr. eator chang dime
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.	 <u>front-</u> symb
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	

	be evaluated.
	Meets the product
10.2.7 INSCRIPTIONS	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	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
OPERATING FREQUENCY	1200 Operations/h
POLLUTION DEGREE	
	3
CLIMATIC PROOFING	3 Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC
	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
ENCLOSURE MATERIAL RATED IMPULSE WITHSTAND VOLTAGE	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Plastic
ENCLOSURE MATERIAL RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Plastic 6000 V AC
ENCLOSURE MATERIAL RATED IMPULSE WITHSTAND VOLTAGE (UIMP) ACTUATOR TYPE AMBIENT OPERATING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Plastic 6000 V AC Short thumb-grip

AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
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	4
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	Surface mounting
OVERVOLTAGE CATEGORY	111
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	IP65
NUMBER OF CONTACTS	7
MODEL	Pole switch
DEGREE OF PROTECTION (FRONT SIDE)	IP65 NEMA 12
INSCRIPTION	0-1-2
SWITCH FUNCTION TYPE	2 speeds, 2 separate windings

LIFESPAN, MECHANICAL	400,000 Operations
SAFE ISOLATION	440 V AC, Between the contacts, According to EN 61140
RATED OPERATIONAL CURRENT (IE)	15.6 A at AC-3, 500 V star- delta 20 A at AC-3, 400 V star- delta 20 A at AC-3, 230 V star- delta 8.5 A at AC-3, 690 V star- delta
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	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) 1.3 x l _e (with intermittent operation class 12, 60 % duty factor)
TIGHTENING TORQUE	1 Nm, Screw terminals
NUMBER OF CONTACTS IN SERIES AT DC-21A, 240	
N SERIES AT DC-21A, 240 V	1
	3
V NUMBER OF CONTACTS IN SERIES AT DC-23A, 120	·
V NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V NUMBER OF CONTACTS	3
V NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 240	3
V NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 240 V	3 1 5
V NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 240 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V	3 1 5 2
V NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 240 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V RATED BREAKING CAPACITY AT 220/230 V	3 1 5 2 3

PHI TO IEC 60947-3)	
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
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)	2 x (0.75 - 2.5) mm², ferrules to DIN 46228 1 x (0.75 - 2.5) mm², ferrules to DIN 46228
SUITABLE FOR	Ground mounting Front mounting
RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS	10 A
RATED OPERATIONAL	10 A

CURRENT (IE) AT DC-13, CONTROL SWITCHES L/R = 50 MS	
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 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	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	7.5 kW

380/400 V, 50 HZ	
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	60 °
VOLTAGE PER CONTACT PAIR IN SERIES	60 V
TERMINAL CAPACITY (SOLID/STRANDED)	2 x (1 - 2.5) mm² 1 x (1 - 2.5) mm²
UNINTERRUPTED CURRENT	Rated uninterrupted current lu is specified for max. cross-section.
DESIGN	8450

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

:



Eaton House 30 Pembroke Road Dublin 4, Eaton.com

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