Specifications

Photo is representative

Eaton 222560

Eaton Moeller® series T0 Changeoverswitches, T0, 20 A, surface mounting, 1 contact unit(s), Contacts: 2, 60°, maintained, With 0 (Off) position, 2-0-1, Design number 15180

General specifications	
PRODUCT NAME	Eaton Moeller® series T0 Changeover switch
CATALOG NUMBER	222560
EAN	4015082225605
PRODUCT LENGTH/DEPTH	137 mm
PRODUCT HEIGHT	102 mm
PRODUCT WIDTH	80 mm
PRODUCT WEIGHT	0.253 kg
CERTIFICATIONS	IEC 60947 EN 60204 EN 60947 VDE IEC/EN 60947-3 VDE 0660 IEC/EN 60947 IEC/EN 60204
CATALOG NOTES	Rated Short-time Withstand Current (lcw) for a time of 1 second
MODEL CODE	T0-1-15180/I1



Features & Functions	
ENCLOSURE MATERIAL	Plastic
FEATURES	Complete device in housing
FITTED WITH:	0 (off) position Black thumb grip and front plate
INSCRIPTION	2-0-1
NUMBER OF POLES	1

General	
ACCESSORIES	Black thumb grip and front plate
DEGREE OF PROTECTION	IP65
DEGREE OF PROTECTION (FRONT SIDE)	IP65 NEMA 12
LIFESPAN, MECHANICAL	400,000 Operations
MODEL	Reverser
MOUNTING METHOD	Surface Surface mounting
MOUNTING POSITION	As required
NUMBER OF CONTACT UNITS	1
OPERATING FREQUENCY	1200 Operations/h
OVERVOLTAGE CATEGORY	Ш
POLLUTION DEGREE	3
POLLUTION DEGREE PRODUCT CATEGORY	3 Control switches
PRODUCT CATEGORY RATED IMPULSE WITHSTAND VOLTAGE	Control switches
PRODUCT CATEGORY RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	Control switches 6000 V AC 440 V AC, Between the contacts, According to EN
PRODUCT CATEGORY RATED IMPULSE WITHSTAND VOLTAGE (UIMP) SAFE ISOLATION SAFETY PARAMETER (EN	Control switches 6000 V AC 440 V AC, Between the contacts, According to EN 61140 B10d values as per EN ISO
PRODUCT CATEGORY RATED IMPULSE WITHSTAND VOLTAGE (UIMP) SAFE ISOLATION SAFETY PARAMETER (EN ISO 13849-1)	Control switches 6000 V AC 440 V AC, Between the contacts, According to EN 61140 B10d values as per EN ISO 13849-1, table C.1 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-
PRODUCT CATEGORY RATED IMPULSE WITHSTAND VOLTAGE (UIMP) SAFE ISOLATION SAFETY PARAMETER (EN ISO 13849-1) SHOCK RESISTANCE	Control switches 6000 V AC 440 V AC, Between the contacts, According to EN 61140 B10d values as per EN ISO 13849-1, table C.1 15 g, Mechanical, According to IEC/EN 60068-2-27, Halfsinusoidal shock 20 ms

Climatic environmental conditions	
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	40 °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) mm², ferrules to DIN 46228 2 x (0.75 - 2.5) mm², ferrules to DIN 46228
TERMINAL CAPACITY (SOLID/STRANDED)	1 x (1 - 2.5) mm ² 2 x (1 - 2.5) mm ²
SCREW SIZE	M3.5, Terminal screw
TIGHTENING TORQUE	1 Nm, 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 OPERATIONAL CURRENT (IE)	8.5 A at AC-3, 690 V stardelta 20 A at AC-3, 230 V stardelta 15.6 A at AC-3, 500 V stardelta 20 A at AC-3, 400 V stardelta
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,	10 A

CURRENT (IE) AT DC-1,

Short-circuit rating **RATED CONDITIONAL SHORT-CIRCUIT CURRENT** 6 kA (IQ) RATED SHORT-TIME WITHSTAND CURRENT 320 A, Contacts, 1 second (ICW) **SHORT-CIRCUIT** 20 A gG/gL, Fuse, Contacts

PROTECTION RATING

LOAD-BREAK SWITCHES L/R = 1 MS	
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, 24 V	10 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) AT DC-23A, 120 V	5 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 240 V	5 A
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 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 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
UNINTERRUPTED CURRENT	Rated uninterrupted current lu is specified for max. cross-section.
VOLTAGE RATING	690 V

Switching capacity	
LOAD RATING	$1.6 \times l_e$ (with intermittent operation class 12, 40 % duty factor) $2 \times l_e$ (with intermittent operation class 12, 25 % duty factor) $1.3 \times l_e$ (with intermittent operation class 12, 60 % 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
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	130 A
VOLTAGE PER CONTACT PAIR IN SERIES	60 V

Contacts	
CONTROL CIRCUIT RELIABILITY	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
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 CONTACTS	2

Actuator	
ACTUATOR FUNCTION	Maintained With 0 (Off) position
ACTUATOR TYPE	Short thumb-grip

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	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	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
	eaton-rotary-switches-dimensions-t0-step- switch-dimensions.eps
DRAWINGS	eaton-rotary-switches-t0-changeover-switch- dimensions.eps
	eaton-rotary-switches-front-plate-t0-changeover- switch-symbol-010.eps
	eaton-general-totally-insulated-t0-main-switch- symbol.eps
	eaton-general-rotary-switch-t0-step-switch- symbol.eps
ECAD MODEL	DA-CE-ETN.T0-1-15180 11
INSTALLATION INSTRUCTIONS	<u>IL03801007Z2021_06.pdf</u>
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CD-bauform2 DA-CS-bauform2
PRODUCT NOTIFICATIONS	MZ008006ZU_Orderform_Customized_Switch.pdf
	MZ008005ZU Orderform Customized Switch.pdf
WIRING DIAGRAMS	eaton-rotary-switches-t0-changeover-switch- wiring-diagram-086.eps
	eaton-rotary-switches-t0-changeover-switch- wiring-diagram-085.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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