Specifications



Eaton 070132

Eaton Moeller series TM Step switch, 10 A, Flush mounting, 5 contact unit(s), Contacts: 9, Maintained, 0-3, Design: 8281

General specifications	
PRODUCT NAME	Eaton Moeller® series TM Step switch
CATALOG NUMBER	070132
MODEL CODE	TM-5-8281/E
EAN	4015080701323
PRODUCT LENGTH/DEPTH	110 mm
PRODUCT HEIGHT	30 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.075 kg
CERTIFICATIONS	IEC/EN 60947-5-1 IEC/EN 60947 UL UL File No.: E36332 CSA UL Category Control No.: NLRV CSA-C22.2 No. 94 CE UL report applies to both US and Canada Certified by UL for use in Canada VDE 0660 IEC/EN 60947-3 UL 508 CSA-C22.2 No. 14-05
GLOBAL CATALOG	070132
PRODUCT TYPE	Step switch

Product specifications

TYPE	Step switch
ACTUATOR FUNCTION	Maintained 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	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 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	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	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
FITTED WITH:	0 (off) position Black thumb grip and front plate
OPERATING FREQUENCY	1200 Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
RATED UNINTERRUPTED CURRENT (IU)	10 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
SWITCHING ANGLE	45 °
WIDTH IN NUMBER OF MODULAR SPACINGS	0
PRODUCT CATEGORY	Control switches
NUMBER OF POLES	Three-pole
DEVICE CONSTRUCTION	Built-in device
SWITCH TYPE	Level switch
ACTUATOR TYPE	Toggle
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	0.33 HP
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 3-PHASE	0.75 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	0.75 HP
ASSIGNED MOTOR	1 HP

POWER AT 230/240 V, 60 HZ, 3-PHASE	
ASSIGNED MOTOR POWER AT 277 V, 60 HZ, 1-PHASE	0.75 HP
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
MOUNTING POSITION	As required
MOUNTING METHOD	Flush mounting
DEGREE OF PROTECTION	IP65
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 NEMA 12
NUMBER OF CONTACTS	9
SUITABLE FOR	Front mounting
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.15 W
NUMBER OF CONTACT UNITS	5
FRONT SHIELD SIZE	30x30 mm
SCREW SIZE	M2.5, Terminal screw
INSCRIPTION	0-3
NUMBER OF STEPS	3 (45°)
LIFESPAN, MECHANICAL	1,000,000 Operations
NUMBER OF SWITCH POSITIONS	4
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, IU, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A300 (UL/CSA)
RATED OPERATING VOLTAGE (UE) AT AC - MAX	500 V
RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V	10 A
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	10 A, Rated uninterrupted current max. (UL/CSA)
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	10 A
RATED OPERATIONAL POWER AT AC-23A, 400 V,	3 kW

50 HZ	
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x 1.0 mm², ferrules to DIN 46228 1 x 1.0 mm², ferrules to DIN 46228
TERMINAL CAPACITY (FLEXIBLE)	2 x 1.5 mm² 1 x 1.5 mm²
SHORT-CIRCUIT PROTECTION RATING	10 A gG/gL, Fuse, Contacts
TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG)	14
TERMINAL CAPACITY (SOLID/STRANDED)	2 x 1,5 mm² 1 x 1.5 mm²
TIGHTENING TORQUE	0.4 Nm, Screw terminals 3.5 lb-in, Screw terminals
UNINTERRUPTED CURRENT	Rated uninterrupted current Iu is specified for max. cross-section.
DESIGN	8281

Resources

BROCHURES	Brochure - T Rotary Cam switch and P Switch-disconnector
CATALOGS	P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN
DECLARATIONS OF CONFORMITY	eaton-changeover-switch-declaration-of-conformity-eu260191en.pdf eaton-changeover-switch-declaration-of-conformity-uk260201en.pdf
DRAWINGS	eaton-rotary-switches-mounting-tm-step-switch-dimensions.eps eaton-rotary-switches-mounting-tm-step-switch-dimensions-009.eps eaton-rotary-switches-mounting-t0-changeover-switch-3d-drawing-002.eps eaton-rotary-switches-front-plate-tm-step-switch-symbol-007.eps eaton-general-rotary-switch-t0-step-switch-symbol-002.eps
ECAD MODEL	DA-CE-ETN.TM-5-8281_E
INSTALLATION INSTRUCTIONS	IL03801026Z
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CS-tm5_e
PRODUCT NOTIFICATIONS	MZ008005ZU_Orderform_Customized_Switch.pdf MZ008006ZU_Orderform_Customized_Switch.pdf
WIRING DIAGRAMS	eaton-rotary-switches-changeover-switch-t0-step-switch-wiring-diagram-005.eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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