



Eaton 084370

Eaton Moeller series TM Step switch, 10 A,
Flush mounting, 1 contact unit(s), Contacts:
2, Maintained, 0-1-2, Design: 8310

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PRODUCT NAME	Eaton Moeller® series TM Step switch
CATALOG NUMBER	084370
PRODUCT LENGTH/DEPTH	62 mm
PRODUCT HEIGHT	30 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.029 kg
CERTIFICATIONS	CSA-C22.2 No. 94 IEC/EN 60947-3 UL report applies to both US and Canada Certified by UL for use in Canada UL Category Control No.: NLRV UL 508 CE UL File No.: E36332 IEC/EN 60947-5-1 UL CSA IEC/EN 60947 CSA-C22.2 No. 14-05 VDE 0660

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.

DECLARATIONS OF CONFORMITY	eaton-step-switch-declaration-of-conformity-uk251335en.pdf
□□□□□	IL03801025Z
□□□	eaton-rotary-switches-circuit-t0-step-switch-wiring-diagram-002.eps
□□	eaton-rotary-switches-mounting-tm-step-switch-dimensions.eps eaton-rotary-switches-mounting-tm-step-switch-dimensions-005.eps eaton-rotary-switches-front-plate-tm-step-switch-symbol-006.eps

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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
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	60 °
WIDTH IN NUMBER OF MODULAR SPACINGS	0
PRODUCT CATEGORY	Control switches
NUMBER OF POLES	Single-pole
DEVICE CONSTRUCTION	Built-in device
SWITCH TYPE	Level switch
ACTUATOR TYPE	Toggle
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING	-25 °C

TEMPERATURE - MIN	
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 POWER AT 230/240 V, 60 HZ, 3-PHASE	1 HP
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	2
SUITABLE FOR	Front mounting
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.15 W
NUMBER OF CONTACT UNITS	1
FRONT SHIELD SIZE	30x30 mm
SCREW SIZE	M2.5, Terminal screw
INSCRIPTION	0-1-2
LIFESPAN, MECHANICAL	1,000,000 Operations
NUMBER OF SWITCH	3

POSITIONS	
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, 50 HZ	3 kW
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x 1.0 mm ² , ferrules to DIN 46228 2 x 1.0 mm ² , ferrules to DIN 46228
TERMINAL CAPACITY (FLEXIBLE)	1 x 1.5 mm ² 2 x 1.5 mm ²
SHORT-CIRCUIT PROTECTION RATING	10 A gG/gL, Fuse, Contacts
TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG)	14
TERMINAL CAPACITY (SOLID/STRANDED)	1 x 1.5 mm ² 2 x 1,5 mm ²
TIGHTENING TORQUE	3.5 lb-in, Screw terminals 0.4 Nm, Screw terminals
UNINTERRUPTED CURRENT	Rated uninterrupted current I _u is specified for max. cross-section.
DESIGN	8310

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:



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