Step switches, TM, 10 A, centre mounting, 2 contact unit(s), Contacts: 3, 45 $^{\circ}$, maintained, With 0 (Off) position, 0-3, Design number 8241



Part no. TM-2-8241/EZ

015256

EL Number

1456169

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(Hollway)		
General specifications		
Product name	E	Eaton Moeller® series TM Step switch
Part no.	Т	TM-2-8241/EZ
EAN	4	4015080152569
Product Length/Depth	8	37 millimetre
Product height	3	30 millimetre
Product width	3	30 millimetre
Product weight	0	0.042 kilogram
Certifications	U C C U C C U U U U U U U U U U U U U U	JL File No.: E36332 JL Category Control No.: NLRV CSA-C22.2 No. 14-05 CSA-C22.2 No. 94 JL report applies to both US and Canada VDE 0660 CSA JL EC/EN 60947-3 EC/EN 60947 Certified by UL for use in Canada EC/EN 60947-5-1 JL 508 CE
Product Tradename	Т	ГМ
Product Type	S	Step switch
Product Sub Type	N	None
Features & Functions		
Fitted with:		Black thumb grip and front plate O (off) position
Inscription	0	0-3
Number of poles	S	Single-pole
General information		
Degree of protection	II	P65
Degree of protection (front side)		P65 NEMA 12
Lifespan, mechanical	1	1,000,000 Operations
Mounting method	C	Center mounting
Mounting position	Д	As required
Number of contact units	2	
Operating frequency		1200 Operations/h
Overvoltage category	II	II
Pollution degree	3	
Product category	C	Control switches
Rated impulse withstand voltage (Uimp)	4	000 V AC
Suitable for	F	Front mounting
Switching angle		15°
Туре	S	Step switch
Climatic environmental conditions		
Ambient operating temperature - min	-:	25 °C
Ambient operating temperature - max	5	50 °C
Climatic proofing		Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacities		
Terminal capacity (flexible with ferrule)	2	2 x 1.0 mm², ferrules to DIN 46228

	1 x 1.0 mm², ferrules to DIN 46228
Terminal capacity (flexible)	1 x 1.5 mm ² 2 x 1.5 mm ²
Terminal capacity (solid/flexible with ferrule AWG)	14
Terminal capacity (solid/stranded)	2 x 1,5 mm ² 1 x 1.5 mm ²
Screw size	M2.5, Terminal screw
Tightening torque	0.4 Nm, Screw terminals 3.5 lb-in, Screw terminals
Electrical rating	
Rated operating voltage (Ue) at AC - max	500 V
Rated operational current (Ie) at AC-21, 440 V	10 A
Rated operational power at AC-23A, 400 V, 50 Hz	3 kW
Rated uninterrupted current (Iu)	10 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Short-circuit protection rating	10 A gG/gL, Fuse, Contacts
Switching capacity	
Switching capacity (main contacts, general use)	10 A, Rated uninterrupted current max. (UL/CSA)
Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A300 (UL/CSA)
Motor rating	
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
Contacts	
Control circuit reliability	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
Number of contacts	3
Actuator	
Actuator function	With 0 (Off) position Maintained
Actuator type	Toggle
Number of steps	3 (45°)
Number of switch positions	4
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.15 W
Rated operational current for specified heat dissipation (In)	10 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	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.
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.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Control switch (EC002611)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss13-27-37-14-14 [ACN998016])

	Level switch
	1
V	500
Α	10
	4
	Yes
	No
	Built-in device
	0
	No
	Yes
	No
	No
	No
	Toggle
	30x30 mm
	IP65
	12