## Non-standard switch, TM, 10 A, service distribution board mounting, 1 contact unit(s) $\frac{1}{2}$



Part no. TM-1-SOND\*/IVS 225346

General specifications	
Product name	Eaton Moeller® series TM Non-standard switch
Part no.	TM-1-SOND*/IVS
Product Length/Depth	65 millimetre
Product height	60 millimetre
Product width	35.5 millimetre
Product weight	0.04 kilogram
Certifications	IEC/EN 60947 IEC/EN 60947-5-1 VDE 0660
Product Tradename	TM
Product Type	Non-standard switch
Product Sub Type	None
Catalog Notes	Customized version according to form mini rotary switch TM, SOND reorder
Features & Functions	
Number of poles	Zero-pole
General information	
Degree of protection (front side)	IP30 NEMA 2
Lifespan, mechanical	1,000,000 Operations
Mounting method	Service distribution board mounting
Mounting position	As required
Number of contact units	1
Operating frequency	1200 Operations/h
Overvoltage category	III
Pollution degree	3
Product category	Non-standard switch
Rated impulse withstand voltage (Uimp)	4000 V AC
Suitable for	Ground mounting Distribution board installation
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	50 °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)	$1 \times 1.0 \text{ mm}^2$ , ferrules to DIN 46228 $2 \times 1.0 \text{ mm}^2$ , ferrules to DIN 46228
Terminal capacity (flexible)	1 x 1.5 mm <sup>2</sup> 2 x 1.5 mm <sup>2</sup>
Terminal capacity (solid/flexible with ferrule AWG)	14
Terminal capacity (solid/stranded)	2 x 1,5 mm <sup>2</sup> 1 x 1.5 mm <sup>2</sup>
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 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.
Contacts	
Control circuit reliability	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
Actuator	
Actuator type	Toggle
Number of switch positions	0
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	Meets the product standard's requirements.
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])		
Type of switch		
Number of poles		0
Max. rated operation voltage Ue AC	V	500
Rated permanent current lu	А	10
Number of switch positions		0
With zero (off) position		No
With retraction in 0-position		No
Device construction		Built-in device
Width in number of modular spacings		0
Suitable for floor mounting		Yes
Suitable for front mounting		No
Suitable for distribution board installation		Yes
Suitable for intermediate mounting		No
Complete device in housing		No

Type of control element	Toggle
Front shield size	Other
Degree of protection (IP), front side	IP30
Degree of protection (NEMA), front side	2