DATASHEET - TM-2-8550/E

Coding switches, TM, 10 A, flush mounting, 2 contact unit(s), Contacts: 4, 30 °, maintained, With 0 (Off) position, 0-9, Design number 8550



Part no.

TM-2-8550/E 020300

General specifications	
Product name	Eaton Moeller® series TM Insulated enclosure
Part no.	TM-2-8550/E
EAN	4015080203001
Product Length/Depth	74 millimetre
Product height	30 millimetre
Product width	30 millimetre
Product weight	0.04 kilogram
Certifications	VDE 0660 CSA-C22.2 No. 94 CSA-C22.2 No. 14-05 UL Category Control No.: NLRV IEC/EN 60947-3 Certified by UL for use in Canada CSA UL File No.: E36332 IEC/EN 60947-5-1 CE UL report applies to both US and Canada UL
Product Tradename	TM
Product Type	Insulated enclosure
Product Sub Type	None
Features & Functions	
Fitted with:	0 (off) position Black thumb grip and front plate
Inscription	0-9
Number of poles	Single-pole
Switch function type	BCD Code 0-9
General information	
Degree of protection	IP65
Degree of protection (front side)	IP65 NEMA 12
Lifespan, mechanical	1,000,000 Operations
Mounting method	Flush mounting
Mounting position	As required
Number of contact units	2
Operating frequency	1200 Operations/h
Overvoltage category	
Pollution degree	3
Product category	Control switches
Rated impulse withstand voltage (Uimp)	4000 V AC
Suitable for	Front mounting
Switching angle	30 °
Туре	Coding switch
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 x 1.0 mm ² , ferrules to DIN 46228

	2 x 1.0 mm ² , ferrules to DIN 46228
Terminal capacity (flexible)	$1 \times 1.5 \text{ mm}^2$
	2 x 1.5 mm ²
Terminal capacity (solid/flexible with ferrule AWG)	14 1 x 1.5 mm ²
Terminal capacity (solid/stranded)	$2 \times 1.5 \text{ mm}^2$
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 (main contacts, general use)	10A, IU, (UL/CSA)
Switching capacity (auxiliary contacts, general use)	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	4
Actuator	
Actuator function	Maintained With 0 (Off) position
Actuator type	Toggle
Number of switch positions	10
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

Type of control element

Degree of protection (IP), front side

Degree of protection (NEMA), front side

Front shield size

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 Coding switch Number of poles 1 ٧ 500 Max. rated operation voltage Ue AC Rated permanent current lu А 10 10 Number of switch positions With zero (off) position Yes With retraction in 0-position No Device construction Built-in device Width in number of modular spacings 0 Suitable for floor mounting No Suitable for front mounting Yes Suitable for distribution board installation No Suitable for intermediate mounting No Complete device in housing No

> Toggle 30x30 mm

IP65

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