

ON-OFF switches, TM, 10 A, flush mounting, 2 contact unit(s), Contacts: 4, 90 °, maintained, With 0 (Off) position, 0-1, Design number 8293



Part no. TM-2-8293/E
077250

General specifications		
Product name		Eaton Moeller® series TM On-Off switch
Part no.		TM-2-8293/E
EAN		4015080772507
Product Length/Depth		74 millimetre
Product height		30 millimetre
Product width		30 millimetre
Product weight		0.038 kilogram
Certifications		UL File No.: E36332 UL report applies to both US and Canada CSA-C22.2 No. 94 UL Certified by UL for use in Canada VDE 0660 CSA-C22.2 No. 14-05 IEC/EN 60947 UL Category Control No.: NLRV IEC/EN 60947-3 CSA UL 508 CE IEC/EN 60947-5-1 CSA UL
Product Tradename		TM
Product Type		On-Off switch
Product Sub Type		None
Features & Functions		
Fitted with:		Black thumb grip and front plate
Inscription		0-1
Number of poles		4
General information		
Degree of protection		NEMA 12
Degree of protection (front side)		IP65
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		III
Pollution degree		3
Rated impulse withstand voltage (Uimp)		4000 V AC
Suitable for		Front mounting 4-hole
Switching angle		90 °
Type		ON-OFF switch
Climatic environmental conditions		
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		50 °C
Climatic proofing		Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacities		
Terminal capacity		2 x 1,5 mm², solid or stranded 1 x 1.5 mm², flexible 14 AWG, solid or flexible with ferrule 2 x 1.0 mm², flexible with ferrules to DIN 46228 2 x 1.5 mm², flexible

			1 x 1.0 mm ² , flexible with ferrules to DIN 46228 1 x 1.5 mm ² , solid or stranded
Screw size			M2.5, Terminal screw
Tightening torque			0.4 Nm, Screw terminals 3.5 lb-in, Screw terminals
Electrical rating			
Rated operational power at AC-3, 380/400 V, 50 Hz			0 kW
Rated operational power at AC-23A, 400 V, 50 Hz			3 kW
Rated operational voltage (Ue) at AC - min			500 V
Rated operational voltage (Ue) at AC - max			500 V
Rated uninterrupted current (Iu)			10 A
Uninterrupted current			Rated uninterrupted current Iu is specified for max. cross-section.
Short-circuit rating			
Rated conditional short-circuit current (Iq)			0 kA
Rated short-time withstand current (Icw)			0 kA
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 auxiliary contacts (change-over contacts)			0
Number of auxiliary contacts (normally closed contacts)			0
Number of auxiliary contacts (normally open contacts)			0
Actuator			
Actuator color			Black
Actuator function			With 0 (Off) position Maintained
Actuator type			Short thumb-grip
Design verification			
Equipment heat dissipation, current-dependent Pvid			0 W
Heat dissipation capacity Pdis			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) / Switch disconnecter (low voltage) (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecI@ss13-27-37-14-03 [AKF060018])			
Version as main switch			No
Version as maintenance-/service switch			No
Version as safety switch			No
Version as emergency stop installation			No
Version as reversing switch			No
Number of switches			1
Max. rated operation voltage Ue AC		V	500
Rated operating voltage		V	500
Rated permanent current Iu		A	10
Rated permanent current at AC-23, 400 V		A	
Rated permanent current at AC-21, 400 V		A	0
Rated operation power at AC-3, 400 V		kW	0
Rated short-time withstand current Icw		kA	0
Rated operation power at AC-23, 400 V		kW	3
Switching power at 400 V		kW	0
Conditioned rated short-circuit current Iq		kA	0
Number of poles			4
Number of auxiliary contacts as normally closed contact			0
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as change-over contact			0
Motor drive optional			No
Motor drive integrated			No
Voltage release optional			No
Device construction			Built-in device fixed built-in technique
Suitable for floor mounting			No
Suitable for front mounting 4-hole			Yes
Suitable for front mounting centre			No
Suitable for distribution board installation			No
Suitable for intermediate mounting			No
Colour control element			Black
Type of control element			Short thumb-grip
Interlockable			No
Type of electrical connection of main circuit			Screw connection
With pre-assembled cabling			No
Degree of protection (IP), front side			IP65
Degree of protection (NEMA)			12
Width		mm	30
Height		mm	30
Depth		mm	74
Width in number of modular spacings			

