ON-OFF switches, TM, 10 A, flush mounting, 1 contact unit(s), Contacts: 2, 90 $^{\circ}$, maintained, With 0 (Off) position, 0-1, Design number 8291



Part no. TM-1-8291/E 072504

General specifications	
Product name	Eaton Moeller® series TM On-Off switch
Part no.	TM-1-8291/E
EAN	4015080725046
Product Length/Depth	62 millimetre
Product height	30 millimetre
Product width	30 millimetre
Product weight	0.029 kilogram
Certifications	UL report applies to both US and Canada CSA-C22.2 No. 94 UL UL Category Control No.: NLRV IEC/EN 60947-5-1 CSA VDE 0660 UL 508 IEC/EN 60947 UL File No.: E36332 CE IEC/EN 60947-3 CSA-C22.2 No. 14-05 Certified by UL for use in Canada UL CSA
Product Tradename	тм
Product Type	On-Off switch
Product Sub Type	None
eatures & Functions	
Fitted with:	Black thumb grip and front plate
Inscription	0-1
Number of poles	2
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	1
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 °
Туре	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
erminal capacities	
Terminal capacity	14 AWG, solid or flexible with ferrule 1 x 1.5 mm², solid or stranded 2 x 1.0 mm², flexible with ferrules to DIN 46228 2 x 1,5 mm², solid or stranded 1 x 1.5 mm², flexible

	2 x 1.5 mm², flexible
Screw size	1 x 1.0 mm², flexible with ferrules to DIN 46228 M2.5, Terminal screw
Tightening torque	0.4 Nm, Screw terminals
Tightoning to 1400	3.5 lb-in, Screw terminals
Electrical rating	
Rated operational current (le) at AC-21, 440 V	10 A
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 uninterrupted current (Iu)	10 A
Uninterrupted current	Rated uninterrupted current lu 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 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

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Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@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	
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	10
Rated permanent current at AC-23, 400 V	Α	
Rated permanent current at AC-21, 400 V	Α	0
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current lcw	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		2
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	62
Width in number of modular spacings		