## DATASHEET - T0-4-8344/I1

On-Off switch, TO, 20 A, surface mounting, 4 contact unit(s), 8-pole, with black thumb grip and front plate



Part no.	T0-4-8344/l1 207139

General specifications	
Product name	Eaton Moeller® series T0 On-Off switch
Part no.	T0-4-8344/l1
EAN	4015082071394
Product Length/Depth	137 millimetre
Product height	122 millimetre
Product width	80 millimetre
Product weight	0.36 kilogram
Certifications	IEC/EN 60947-3 VDE 0660 IEC/EN 60204 IEC/EN 60947
Product Tradename	ТО
Product Type	On-Off switch
Product Sub Type	None
Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions	
Fitted with:	Black thumb grip and front plate
Inscription	0-1
Number of poles	8
General information	
Degree of protection	NEMA 12
Degree of protection (front side)	IP65
Lifespan, mechanical	400,000 Operations
Mounting method	Surface mounting
Mounting position	As required
Number of contact units	4
Operating frequency	1200 Operations/h
Overvoltage category	
Pollution degree	3
Rated impulse withstand voltage (Uimp)	6000 V AC
Safe isolation	440 V AC, Between the contacts, According to EN 61140
Safety parameter (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
Suitable for	Ground mounting
Switching angle	90 °
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	40 °C
Ambient operating temperature (enclosed) - min	-25 °C
Ambient operating temperature (enclosed) - max	40 °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 (0.75 - 2.5) mm <sup>2</sup> , flexible with ferrules to DIN 46228 1 x (0.75 - 2.5) mm <sup>2</sup> , flexible with ferrules to DIN 46228 1 x (1 - 2.5) mm <sup>2</sup> , solid or stranded 2 x (1 - 2.5) mm <sup>2</sup> , solid or stranded
Screw size	M3.5, Terminal screw
Tightening torque	1 Nm, Screw terminals

	8.8 lb-in,	Screw terminals
Electrical rating		
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	100 A	
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	110 A	
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	80 A	
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	60 A	
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	11.5 A	
Rated operational current (le) at AC-3, 380 V, 400 V, 415 V	11.5 A	
Rated operational current (le) at AC-3, 500 V	9 A	
Rated operational current (Ie) at AC-3, 660 V, 690 V	4.9 A	
Rated operational current (Ie) at AC-21, 440 V	20 A	
Rated operational current (Ie) at AC-23A, 230 V	13.3 A	
Rated operational current (Ie) at AC-23A, 400 V, 415 V	13.3 A	
Rated operational current (Ie) at AC-23A, 500 V	13.3 A	
Rated operational current (Ie) at AC-23A, 690 V	7.6 A	
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	10 A	
Rated operational current (Ie) at DC-13, control switches L/R = 50 ms	10 A	
Rated operational current (Ie) at DC-21, 240 V	1 A	
Rated operational current (Ie) at DC-23A, 24 V	10 A	
Rated operational current (Ie) at DC-23A, 48 V	10 A	
Rated operational current (Ie) at DC-23A, 60 V	10 A	
Rated operational current (le) at DC-23A, 120 V	5 A	
Rated operational current (Ie) at DC-23A, 240 V	5 A	
Rated operational current (Ie) star-delta at AC-3, 220/230 V	20 A	
Rated operational current (le) star-delta at AC-3, 380/400 V	20 A	
Rated operational current (Ie) star-delta at AC-3, 500 V	15.6 A	
Rated operational current (le) star-delta at AC-3, 690 V	8.5 A	
Rated operational power at AC-3, 380/400 V, 50 Hz	5.5 kW	
Rated operational power at AC-3, 415 V, 50 Hz	5.5 kW	
Rated operational power at AC-3, 500 V, 50 Hz	5.5 kW	
Rated operational power at AC-3, 690 V, 50 Hz	4 kW	
Rated operational power at AC-23A, 220/230 V, 50 Hz	3 kW	
Rated operational power at AC-23A, 400 V, 50 Hz	5.5 kW	
Rated operational power at AC-23A, 500 V, 50 Hz	7.5 kW	
Rated operational power at AC-23A, 690 V, 50 Hz	5.5 kW	
Rated operational power star-delta at 220/230 V, 50 Hz	5.5 kW	
Rated operational power star-delta at 380/400 V, 50 Hz	7.5 kW	
Rated operational power star-delta at 500 V, 50 Hz	7.5 kW	
Rated operational power star-delta at 690 V, 50 Hz	5.5 kW	
Rated uninterrupted current (Iu)	20 A	
Uninterrupted current		interrupted current lu is specified for max. cross-section.
Short-circuit rating	nated u	
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Rated conditional short-circuit current (Iq)	6 kA	
Rated short-time withstand current (Icw)	0.32 kA 320 A, Co	ontacts, 1 second
Short-circuit protection rating	20 A gG/	gL, Fuse, Contacts
Switching capacity		
Load rating	1.6 x I# (	with intermittent operation class 12, 60 % duty factor) with intermittent operation class 12, 40 % duty factor) th intermittent operation class 12, 25 % duty factor)
Number of contacts in series at DC-21A, 240 V	1	
Number of contacts in series at DC-23A, 24 V	1	
Number of contacts in series at DC-23A, 48 V	2	
Number of contacts in series at DC-23A, 60 V	3	
Number of contacts in series at DC-23A, 120 V	3	
Number of contacts in series at DC-23A, 240 V	5	

Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	130 A
Voltage per contact pair in series	60 V
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	Maintained
Actuator type	Short thumb-grip
Design verification	
Equipment heat dissipation, current-dependent Pvid	0.6 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.6 W
Rated operational current for specified heat dissipation (In)	20 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 disconnector (low voltage) (EC000216)

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 Version as main switch Version as maintenance-/service switch Version as safety switch

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	А	20

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