On-Off switch, 1 pole, 20 A, 90 °, flush mounting

Powering Business Worldwide*

Part no. T0-1-8200/E 067352

EL Number 1456240

(Norway)

(NUI Way)	
General specifications	
Product name	Eaton Moeller® series T0 On-Off switch
Part no.	T0-1-8200/E
EAN	4015080673521
Product Length/Depth	76 millimetre
Product height	48 millimetre
Product width	48 millimetre
Product weight	0.083 kilogram
Certifications	CSA File No.: 012528 CSA-C22.2 No. 60947-4-1-14 CE UL 60947-4-1 CSA-C22.2 No. 94 IEC/EN 60204 CSA Class No.: 3211-05 UL Category Control No.: NLRV UL File No.: E36332 VDE 0660 IEC/EN 60947 UL IEC/EN 60947-3 CSA
Product Tradename	T0
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	1
General information	
Degree of protection	NEMA 12
Degree of protection (front side)	IP65
Lifespan, mechanical	400,000 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)	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	Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting 4-hole 90 °
Switching angle	30
Climatic environmental conditions	27.00
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	50 °C
Ambient operating temperature (enclosed) - min	-25 °C
Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Terminal capacities	
Terminal capacity	18 - 14 AWG, solid or flexible with ferrule 2 x (0.75 - 2.5) mm², flexible with ferrules to DIN 46228
	1 x (0.75 - 2.5) mm ² , flexible with ferrules to DIN 46228 $2 \times (1 - 2.5)$ mm ² , solid or stranded $1 \times (1 - 2.5)$ mm ² , solid or stranded
Screw size	M3.5, Terminal screw
Tightening torque	1 Nm, Screw terminals 8.8 lb-in, Screw terminals
Electrical rating	o.o ib-iii, solew tellillilais
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 (Ie) at AC-3, 380 V, 400 V, 415 V	11.5 A
Rated operational current (Ie) 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	1A
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 (Ie) 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 (Ie) 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 (Ie) 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 operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (lu)	20 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Ig)	6 kA
Rated short-time withstand current (Icw)	320 A, Contacts, 1 second
	0.32 kA
Short-circuit current rating (basic rating)	5 kA, SCCR (UL/CSA) 50A, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault)	10 kA, SCCR (UL/CSA) 20 A, Class J, max. Fuse, SCCR (UL/CSA)

Short-circuit protection rating	20 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	1.3 x l# (with intermittent operation class 12, 60 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor) 2 x l# (with 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
Switching capacity (main contacts, general use)	16 A, Rated uninterrupted current max. (UL/CSA)
Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	P300 (UL/CSA) A600 (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	130 A
Voltage per contact pair in series	60 V
Notor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	0.5 HP
Assigned motor power at 200/208 V, 60 Hz, 1-phase	1 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	1.5 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	7.5 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	7.5 HP
ontacts	
Control circuit reliability	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 1 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
ctuator	
Actuator color	Black
Actuator function	Maintained
Actuator type	Short thumb-grip
esign verification	
Equipment heat dissipation, current-dependent Pvid	0 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.
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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 8.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

Version as main switch Na Version as a main tentanance-jearvice switch Na Version as a mergency stop installation Na Version as a mergency stop installation Na Version as a mergency stop installation Na Number of switches V 60 Rutad operation voltage V 60 Rated operation voltage A 20 Rated operation power at AC-23, 400 V A 20 Rated operation power at AC-23, 400 V A 25 Switching power at AC-23, 400 V A 25 Switching power at AC-23, 400 V A 26 Number of polos A 6 Number of polos B 6 Number of polos B 6 Number of auxiliary contacts as normally open contact B Na Wotter of volume of substallation contacts as normally open contact B Na <	[AKF060013])		
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Version as emergency stop installation No Version as reversing switch No Number of switches V 60 Nate of operation voltage Ue AC V 60 Rated operation voltage Ue AC A 20 Rated operation voltage Ue AC A 20 Rated operation voltage Ue AC A 20 Rated operation power at AC-23,400 V A 20 Rated operation power at AC-23,400 V A 55 Rated operation power at AC-23,400 V A 55 Solitching power at 400 V A 6 Conditioned rated short-circuit current Iq A 6 Number of poles B 6 6 Number of auxiliary contacts as normally closed contact B 6 6 Motor drive optional B No 8	Version as maintenance-/service switch		No
Version as revorsing switch Interpretation of switches Number of switches V 690 Max. rated operation voltage V 690 - 890 Rated operating voltage V 690 - 890 Rated operating voltage A 20 Rated permanent current at AC-23, 400 V A 20 Rated operation power at AC-23, 400 V A 20 Rated short-time withstand current tew A 32 Rated operation power at AC-23, 400 V A 32 Rated short-time withstand current tew B 4 6 Rated operation power at AC-23, 400 V A 5 5 Switching power at 400 V A 5 6 Number of suxiliary contacts as normally closed contact A 6 6 Number of auxiliary contacts as change-over contact B 6 No Notact of vive integrated	Version as safety switch		No
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Rated operation power at AC-3, 400 V kW 55 Rated short-time withstand current lcw kW 55 Rated operation power at AC-23, 400 V kW 55 Switching power at 400 V kW 55 Conditioned rated short-circuit current lq kA 6 Number of poles 1 1 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Motor drive optional No No Motor drive integrated No No Voltage release optional No No Device construction No No Suitable for floor mounting No No Suitable for from mounting 4-hole No No Suitable for from thounting centre No No Suitable for from thounting centre No No Suitable for floor intermediate mounting No No Suitable for intermediate mounting No No Colour control element No <td< td=""><td>Rated permanent current at AC-23, 400 V</td><td>Α</td><td></td></td<>	Rated permanent current at AC-23, 400 V	Α	
Rated short-time withstand current Icw Rated operation power at AC-23, 400 V RW Switching power at 400 V Conditioned rated short-circuit current Iq RW	Rated permanent current at AC-21, 400 V	Α	20
Rated operation power at AC-23, 400 V	Rated operation power at AC-3, 400 V	kW	5.5
Switching power at 400 V Conditioned rated short-circuit current Iq Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Notor drive optional Notor drive integrated Nolage release optional Device construction Suitable for floor mounting Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side	Rated short-time withstand current lcw	kA	0.32
Conditioned rated short-circuit current Iq kA 6 Number of poles 1 1 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally open contact 0 0 Mumber of auxiliary contacts as change-over contact 0 0 Motor drive optional No No Motor drive integrated No No Voltage release optional No Built-in device fixed built-in technique Suitable for floor mounting No No Suitable for front mounting 4-hole Yes No Suitable for distribution board installation No No Suitable for distribution board installation No No Suitable for intermediate mounting No No Colour control element No Black Type of control element No Sort thumb-grip Interlockable No Sort womention Type of electrical connection of main circuit No Sort womention Degree of protection (IP), front side Sort womention	Rated operation power at AC-23, 400 V	kW	5.5
Number of poles 1 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 Yes Suitable for front mounting 4-hole Yes Suitable for distribution board installation No Suitable for intermediate mounting No Colour control element No Type of control element Short thumb-grip Interlockable No Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side Ple6	Switching power at 400 V	kW	5.5
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Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No No Voltage release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for front mounting centre Suitable for front mounting centre Suitable for forth mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side	Number of auxiliary contacts as normally closed contact		0
Motor drive optional Motor drive integrated Motor drive integrated No No Voltage release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element No Type of electrical connection of main circuit Degree of protection (IP), front side	Number of auxiliary contacts as normally open contact		0
Motor drive integrated No Voltage release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for firont mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side	Number of auxiliary contacts as change-over contact		0
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Device construction Built-in device fixed built-in technique No Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Built-in device fixed built-in technique No Suitable for floor mounting No No Suitable for front mounting centre No Suitable for distribution board installation No Suitable for intermediate mounting No Suitable for intermediate mounting No Suitable for intermediate mounting No Suitable for intermediate mounting No Suitable for distribution board installation No Type of electrical connection of main circuit Degree of protection (IP), front side	Motor drive integrated		No
Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Supe of control element Suitable for intermediate mounting Suitable for distribution board installation Suitable for front mounting 4-hole Suitable for distribution board installation Suitable for distribution board installation Suitable for front mounting 4-hole Suitable for front mounting 4-hole Suitable for distribution board installation Suitab	Voltage release optional		No
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Suitable for distribution board installation Suitable for intermediate mounting No Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No No No No Screw connection IP65	Suitable for front mounting 4-hole		Yes
Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side No No No Screw connection IP65	Suitable for front mounting centre		No
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Type of control element Interlockable No Type of electrical connection of main circuit Degree of protection (IP), front side Short thumb-grip No Screw connection IP65	Suitable for intermediate mounting		No
Interlockable No Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP65	Colour control element		Black
Type of electrical connection of main circuit Degree of protection (IP), front side Screw connection IP65	Type of control element		Short thumb-grip
Degree of protection (IP), front side	Interlockable		No
· · · · · · ·	Type of electrical connection of main circuit		Screw connection
Degree of protection (NEMA) 12	Degree of protection (IP), front side		IP65
	Degree of protection (NEMA)		12