ON-OFF button, T0, 20 A, surface mounting, 1 contact unit(s), Contacts: 2, Spring-return in START position, 90 °, maintained, With 0 (Off) position, With spring-return to 1, 0-1<START, Design number 15511



Part no. T0-1-15511/l1 207073

General specifications	
Product name	Eaton Moeller® series TO Accessory ON OFF button
Part no.	T0-1-15511/I1
EAN	4015082070731
Product Length/Depth	137 millimetre
Product height	102 millimetre
Product width	80 millimetre
Product weight	0.253 kilogram
Certifications	IEC/EN 60947-3 IEC/EN 60947 VDE 0660 IEC/EN 60204
Product Tradename	ТО
Product Type	Accessory
Product Sub Type	ON OFF button
Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
eatures & Functions	
Features	Complete device in housing
Fitted with:	Retraction in 0-position Black thumb grip and front plate 0 (off) position
Inscription	" 0-1 <start "<="" td=""></start>
Number of poles	Two-pole
eneral information	
Degree of protection	IP65
Degree of protection (front side)	IP65 NEMA 12
Lifespan, mechanical	400,000 Operations
Mounting method	Surface mounting
Mounting position	As required
Number of contact units	1
Operating frequency	1200 Operations/h
Overvoltage category	III
Pollution degree	3
Product category	Control switches
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 °
Туре	ON-OFF button
limatic 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 (flexible with ferrule)	1 x (0.75 - 2.5) mm², ferrules to DIN 46228 2 x (0.75 - 2.5) mm², ferrules to DIN 46228
Terminal capacity (solid/stranded)	1 x (1 - 2.5) mm ² 2 x (1 - 2.5) mm ²
Screw size	M3.5, Terminal screw
Tightening torque	1 Nm, Screw terminals 8.8 lb-in, Screw terminals
lectrical 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 operating voltage (Ue) at AC - max	690 V
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	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 (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, 230 V	20 A
Rated operational current (Ie) star-delta at AC-3, 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, 415 V, 50 Hz	5.5 kW
	5.5 kW
Rated operational power at AC-3, 500 V, 50 Hz	4 kW
Rated operational power at AC-3, 690 V, 50 Hz	
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	Rated uninterrupted current lu is specified for max. cross-section.
hort-circuit rating	
Rated conditional short-circuit current (Iq)	6 kA
Rated short-time withstand current (Icw)	320 A, Contacts, 1 second
Short-circuit protection rating	20 A gG/gL, Fuse, Contacts
witching capacity	
Load rating	1.6 x I# (with intermittent operation class 12, 40 % duty factor) 2 x I# (with intermittent operation class 12, 25 % duty factor) 1.3 x I# (with intermittent operation class 12, 60 % duty factor)
Number of contacts in series at DC-21A, 240 V	1

Number of contacts in series at DC-22A, 48 V Number of contacts in series at DC-22A, 20 V Number of contacts in series at DC-22A, 20 V Rated making capacity up to 980 V (cos phi to IEC/EN 69847-3) Rated making capacity up to 980 V (cos phi to IEC/EN 69847-3) Voltage per contact pair in series Control circuit reliability Number of contacts Control circuit reliability Number of contacts Actuator function Number of contacts Actuator function Actuator function Period of contacts Actuator function Period of contacts Actuator function Number of switch positions Period of contacts Actuator function Actuator function Design verification Equipment head dissipation, current-dependent Pvid Hoat dissipation per pole, current-dependent Pvid Hoat dissipation per pole, current-dependent Pvid 10.22 Control circuit reliability of enclosures 10.23 1 Verification of themas stability of enclosures 10.23 1 Verification of final materials to normal heat 10.23 2 Verification of resistance of insulating materials to normal leat 10.24 Resistance to ultra-violet (IVI radiation 10.25 Lifting 10.24 Resistance to ultra-violet (IVI radiation 10.25 Lifting 10.25 Does not apply, since the entire switchgear needs to be evaluated. 10.26 Mechanical impact 10.27 Internation of switching devices and components 10.30 Degree of protection of assemblies 10.40 International or apply, since the entire switchgear needs to be evaluated. 10.40 International entire the switchgear needs to be evaluated. 10.50 Degree of protection of assemblies 10.50 Protection apply, since the entire switchgear needs to be evaluated. 10.61 Incorporation of switching devices and components 10.62 International circuit of switching devices and components 10.63 Incorporation of switching devices and components 10.65 Incorporation of switching devices and components		
Number of contacts in series at IDC-23A, 80 V Number of contacts in series at IDC-23A, 20 V Number of contacts in series at IDC-23A, 20 V Number of contacts in series at IDC-23A, 20 V Rated making capacity up to 80 V (cos phi to IEC/EN 80947-3) Votago per contact pair in series Control circuit roleability Number of contacts Control circuit roleability Actuator Actuator Actuator Actuator function Actuator function Actuator function Number of switch positions Spring-return to 1 Maintananced Spring-return to 1 Maintananced Spring-return in START position Spring-return to 1 Maintananced Spring-return of	Number of contacts in series at DC-23A, 24 V	1
Number of contacts in series at DC-23A, 280 V Rated making capacity up to 860 V (cos phi to IEC/EN 69847-3) 130 A Outstage per contact pair in series 60 C-23A, 280 V Contracts Control circuit reliability 11 Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V DC mA Inlure per 100,000 switching operations statistically determined, at 24 V D	Number of contacts in series at DC-23A, 48 V	2
Number of contacts in series at DC-23A, 240 V Rated making capacity up to 890 V (cos phi to IEC/EN 60947-3) Voltago per contact pair in series Control Cortacts Control circuit reliability Number of contacts Actuator Actuator function Actuator function Actuator function Actuator function With 0 (Off) position Spring-return to 1 Mentation Actuator type Number of switch positions Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation, current-dependent Pvid Rated operational current for specified heat dissipation (In) Static heat dissipation on resistance 10.2.3 Verification of termial stability of enclosures 10.2.3 Verification of termial stability of enclosures 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of termial stability of enclosures 10.2.3.2 Verification of termial stability of enclosures 10.2.3.2 Verification of thermal stability of enclosures 10.2.3.2 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.2.6 Rechanical impact 10.2.7 Inscriptions 10.2.6 Incorporation of assemblies 10.2.7 Inscriptions 10.2.6 Incorporation of switching devices and components 10.2.8 Incorporation of switching devices and components 10.2.6 Incorporation of switching devices and components 10.5 Internal electrical circuits and connections	Number of contacts in series at DC-23A, 60 V	3
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Voltage per contact pair in series 60 V Control Circuit reliability 1 failure per 100,000 switching operations statistically determined, at 24 V 0.00 m.A.) Number of contacts 2 Actuator With 0 (Off) position Spring-return to 1 Maintained Spring-return in START position Actuator type Toggle Number of switch positions 2 Design verification 2 Equipment heat dissipation, current-dependent Pvid 0W Heat dissipation per pole, current-dependent Pvid 0.8 W Heat dissipation, non-current-dependent Pvid 2.0 A Static heat dissipation, non-current-dependent Pvi 2.0 A 10.2.2 Corrosion resistance Meets the product standard's requirements. 10.2.2 Lorosion resistance of insulating materials to normal heat Meets the product standard's requirements. 10.2.3 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 10.2.3 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. 10.2.7 Inscriptions Meets the product standard's requirements. 10.5 Protection	Number of contacts in series at DC-23A, 240 V	5
Control circuit reliability Control circuit reliability Number of contacts Actuator Actuator Actuator function Actuator funct	Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	130 A
Control circuit reliability Number of contacts Actuator Actuator function Actuator function Actuator function Actuator type Actuator type Number of switch positions Paigneeth eat dissipation, current-dependent Pvid Heat dissipation capacity Pdiss Heat dissipation per pole, current-dependent Pvid Heat dissipation for specified heat dissipation (in) Static heat dissipation per pole, current-dependent Pvid Rated operational current for specified heat dissipation (in) Static heat dissipation, number of switch generate type and the product standard's requirements. 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of circuits and commal heat/fire by internal elect. effects 10.2.3.8 Resist on insul. mat. to abnormal heat/fire by internal elect. effects 10.2.5. Briting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3.1 Pore of protection of assemblies 10.4 Clearances and creepage distances 10.5.4 Pores and creepage distances 10.5.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections	Voltage per contact pair in series	60 V
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	10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.8 Connections for external conductors	10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
15 tile patiet dutidet 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.	10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage Is the panel builder's responsibility.	10.9.3 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.	10.9.4 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 v provide heat dissipation data for the devices.	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 modes observed.	10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must b observed.
10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear modes observed.	10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must b observed.
10.13 Mechanical function The device meets the requirements, provided the information in the instruction leaflet (IL) is 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) / 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])

[101.0000.0]		
Type of switch		On/Off switch
Number of poles		2
Max. rated operation voltage Ue AC	V	690
Rated permanent current lu	Α	20

Number of switch positions	2
With zero (off) position	Yes
With retraction in 0-position	Yes
Device construction	Surface mounted device
Width in number of modular spacings	0
Suitable for floor mounting	Yes
Suitable for front mounting	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	No
Complete device in housing	Yes
Type of control element	Toggle
Front shield size	48x48 mm
Degree of protection (IP), front side	IP65
Degree of protection (NEMA), front side	12