On-Off switch, T5B, 63 A, surface mounting, 1 contact unit(s), 2 pole, Emergency switching off function, with red thumb grip and yellow front plate



Part no. T5B-1-102/I4-RT 207216

eneral specifications	
Product name	Eaton Moeller® series T5B On-Off switch
Part no.	T5B-1-102/I4-RT
EAN	4015082072162
Product Length/Depth	240 millimetre
Product height	162 millimetre
Product width	160 millimetre
Product weight	1.039 kilogram
Certifications	CSA IEC/EN 60947 UL 60947-4-1 CSA-C22.2 No. 94 IEC/EN 60204 CSA File No.: 012528 UL Category Control No.: NLRV CSA-C22.2 No. 60947-4-1-14 CE VDE 0660 CSA Class No.: 3211-07 UL File No.: E36332 UL IEC/EN 60947-3 UL CSA
Product Tradename	T5B
Product Type	On-Off switch
Product Sub Type	None
Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
eatures & Functions	
Features	Version as emergency stop installation
Fitted with:	Red thumb grip and yellow front plate
Functions	Emergency switching off function
Inscription	0-1
Number of poles	Two-pole
eneral information	
Degree of protection	NEMA 12
Degree of protection (front side)	IP65
Lifespan, mechanical	500,000 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
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 Branch circuits, suitable as motor disconnect, (UL/CSA)
Switching angle	90 °
limatic environmental conditions	
Ambient operating temperature - min	-25 °C

Ambient operating temperature - max	40 °C
Ambient operating temperature (enclosed) - min	-25 °C
	40 °C
Ambient operating temperature (enclosed) - max	
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity	2 x (2.5 - 16) mm², solid or stranded 1 x (2.5 - 35) mm², solid or stranded 12 - 4 AWG, solid or flexible with ferrule $2 \times (1.5 - 10) \text{ mm²}$, flexible with ferrule to DIN 46228 1 x (1 - 25) mm², flexible with ferrules to DIN 46228
Screw size	M6, Terminal screw
Tightening torque	35.4 lb-in, Screw terminals 4 Nm, Screw terminals
Electrical rating	VII. 1
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	520 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	600 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	480 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	340 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	51 A
Rated operational current (le) at AC-3, 380 V, 400 V, 415 V	41 A
Rated operational current (le) at AC-3, 500 V	33 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	17 A
Rated operational current (Ie) at AC-21, 440 V	63 A
Rated operational current (Ie) at AC-23A, 230 V	63 A
Rated operational current (le) at AC-23A, 400 V, 415 V	63 A
Rated operational current (le) at AC-23A, 500 V	33 A
Rated operational current (le) at AC-23A, 690 V	23.8 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	63 A
Rated operational current (Ie) at DC-13, control switches L/R = 50 ms	25 A
Rated operational current (le) at DC-23A, 24 V	50 A
Rated operational current (le) at DC-23A, 48 V	50 A
Rated operational current (Ie) at DC-23A, 60 V	50 A
Rated operational current (le) at DC-23A, 120 V	25 A
Rated operational current (le) at DC-23A, 240 V	20 A
Rated operational current (le) star-delta at AC-3, 220/230 V	63 A
Rated operational current (le) star-delta at AC-3, 380/400 V	63 A
Rated operational current (le) star-delta at AC-3, 500 V	57.2 A
Rated operational current (le) star-delta at AC-3, 690 V	29.4 A
Rated operational power at AC-3, 380/400 V, 50 Hz	22 kW
Rated operational power at AC-3, 415 V, 50 Hz	22 kW
Rated operational power at AC-3, 500 V, 50 Hz	22 kW
Rated operational power at AC-3, 690 V, 50 Hz	15 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	18.5 kW
Rated operational power at AC-23A, 400 V, 50 Hz	30 kW
Rated operational power at AC-23A, 500 V, 50 Hz	22 kW
Rated operational power at AC-23A, 690 V, 50 Hz	22 kW
Rated operational power star-delta at 220/230 V, 50 Hz	18.5 kW
Rated operational power star-delta at 380/400 V, 50 Hz	30 kW
Rated operational power star-delta at 500 V, 50 Hz	37 kW
Rated operational power star-delta at 690 V, 50 Hz	22 kW
Rated uninterrupted current (Iu)	63 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	2 kA
Rated short-time withstand current (Icw)	1.3 kA
	1,3 kA, Contacts, 1 second
Short-circuit current rating (high fault)	10 kA, SCCR (UL/CSA)

	100 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating	80 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.3 x l# (with intermittent operation class 12, 60 % duty factor) 2 x l# (with intermittent operation class 12, 25 % duty factor)
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	6
Switching capacity (main contacts, general use)	63 A, Rated uninterrupted current max. (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	800 A
Voltage per contact pair in series	60 V
Notor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	3 HP
Assigned motor power at 200/208 V, 60 Hz, 1-phase	7.5 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	15 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	10 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	15 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	40 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	40 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	Red
Actuator function	Maintained
Actuator type	Short thumb-grip
Design verification	
Equipment heat dissipation, current-dependent Pvid	4.5 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	4.5 W
Rated operational current for specified heat dissipation (In)	63 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.
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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 [AKF060018])				
Version as main switch		No		
Version as maintenance-/service switch		No		
Version as safety switch		No		
Version as emergency stop installation		Yes		
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	63		
Rated permanent current at AC-23, 400 V	Α	63		
Rated permanent current at AC-21, 400 V	Α	63		
Rated operation power at AC-3, 400 V	kW	22		
Rated short-time withstand current lcw	kA	1.3		
Rated operation power at AC-23, 400 V	kW	30		
Switching power at 400 V	kW	30		
Conditioned rated short-circuit current Iq	kA	2		
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		Complete device in housing		
Suitable for floor mounting		Yes		
Suitable for front mounting 4-hole		No		
Suitable for front mounting centre		No		
Suitable for distribution board installation		No		
Suitable for intermediate mounting		No		
Colour control element		Red		
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	160		
Height	mm	162		
Depth	mm	240		
Width in number of modular spacings				