Specifications







Eaton 255913

Eaton Moeller® series T5B Main switch, T5B, 63 A, surface mounting, 3 contact unit(s), 3 pole + N, 1 N/O, 1 N/C, Emergency switching off function, With red rotary handle and yellow locking ring, UL/CSA

General specifications	
PRODUCT NAME	Eaton Moeller® series T5B Main switch
CATALOG NUMBER	255913
EAN	4015082559137
PRODUCT LENGTH/DEPTH	240 mm
PRODUCT HEIGHT	204 mm
PRODUCT WIDTH	160 mm
PRODUCT WEIGHT	1.358 kg
CERTIFICATIONS	VDE 0660 UL UL File No.: E36332 CSA-C22.2 No. 94 CE CSA IEC/EN 60947-3 UL Category Control No.: NLRV CSA Class No.: 3211-07 UL 60947-4-1 CSA-C22.2 No. 60947-4-1-14 IEC/EN 60204 IEC/EN 60947 CSA File No.: 012528
MODEL CODE	T5B-3-8901/I4/SVB-NA



Features & Functions	
FEATURES	Version as emergency stop installation Version as maintenance- /service switch Version as main switch
FITTED WITH:	Red rotary handle and yellow locking ring
FUNCTIONS	Interlockable Emergency switching off function
NUMBER OF POLES	4

General	
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	3
OPERATING FREQUENCY	1200 Operations/h
OVERVOLTAGE CATEGORY	Ш
POLLUTION DEGREE	3
PRODUCT CATEGORY	Main switch
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) 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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Terminal capacities	
TERMINAL CAPACITY	1 x (1 - 25) mm², flexible with ferrules to DIN 46228 2 x (1.5 - 10) mm², flexible with ferrule to DIN 46228 2 x (2.5 - 16) mm², solid or stranded 12 - 4 AWG, solid or flexible with ferrule 1 x (2.5 - 35) mm², solid or stranded
SCREW SIZE	M6, Terminal screw
TIGHTENING TORQUE	35.4 lb-in, Screw terminals 4 Nm, Screw terminals

Electrical rating	
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 (IE) AT AC-3, 380 V, 400 V, 415 V	41 A
RATED OPERATIONAL CURRENT (IE) 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 (IE) AT AC-23A, 400 V, 415 V	63 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	33 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V	23.8 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS	63 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, CONTROL SWITCHES L/R = 50 MS	25 A
RATED OPERATIONAL	50 A

CURRENT (IE) AT DC-23A,

Short-circuit rating **RATED CONDITIONAL** SHORT-CIRCUIT CURRENT 2 kA (IQ) **RATED SHORT-TIME** 1.3 kA WITHSTAND CURRENT 1,3 kA, Contacts, 1 second (ICW) 100 A, Class J, max. Fuse, **SHORT-CIRCUIT CURRENT** SCCR (UL/CSA) **RATING (HIGH FAULT)** 10 kA, SCCR (UL/CSA) **SHORT-CIRCUIT** 80 A gG/gL, Fuse, Contacts **PROTECTION RATING**

24 V	
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V	50 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V	50 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V	25 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 240 V	20 A
RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 220/230 V	63 A
RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 380/400 V	63 A
RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 500 V	57.2 A
RATED OPERATIONAL CURRENT (IE) 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, 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	30 kW

POWER STAR-DELTA AT 380/400 V, 50 HZ	
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 OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	63 A
UNINTERRUPTED CURRENT	Rated uninterrupted current lu is specified for max. cross-section.

Switching capacity	
LOAD RATING	$2 \times l_e$ (with intermittent operation class 12, 25 % duty factor) $1.3 \times l_e$ (with intermittent operation class 12, 60 % duty factor) $1.6 \times l_e$ (with intermittent operation class 12, 40 % 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

Motor 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)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1

Actuator	
ACTUATOR COLOR	Red
ACTUATOR TYPE	Door coupling rotary drive

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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls 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	ls 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.

Resources	
BROCHURES	Brochure - T Rotary Cam switch and P Switch- disconnector
CATALOGUES	P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN
DECLARATIONS OF CONFORMITY	DA-DC-00004897.pdf DA-DC-00004925.pdf
DRAWINGS	eaton-rotary-switches-p3-main-switch- dimensions-009.eps

	eaton-rotary-switches-padlock-t0-main-switch- dimensions.eps
	<u>eaton-general-totally-insulated-t0-main-switch-symbol.eps</u>
	eaton-rotary-switches-t0-main-switch- symbol.eps
	eaton-general-switch-t0-main-switch-symbol.eps
ECAD MODEL	ETN.255913.edz
INSTALLATION INSTRUCTIONS	<u>IL03801009Z</u>
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CD-bauform13 DA-CS-bauform13
PRODUCT NOTIFICATIONS	MZ008006ZU_Orderform_Customized_Switch.pdf
	MZ008005ZU Orderform Customized Switch.pdf
WIRING DIAGRAMS	eaton-rotary-switches-switch-t0-main-switch- wiring-diagram-004.eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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