Specifications

Photo is representative

Eaton 222470

Eaton Moeller® series T0 step switch for heating, T0, 20 A, surface mounting, 2 contact unit(s), Contacts: 4, 60 °, maintained, With 0 (Off) position, 0-3, Design number 95

General specifications	
PRODUCT NAME	Eaton Moeller® series T0 Step switch
CATALOG NUMBER	222470
EAN	4015082224707
PRODUCT LENGTH/DEPTH	98 mm
PRODUCT HEIGHT	100 mm
PRODUCT WIDTH	80 mm
PRODUCT WEIGHT	0.264 kg
CERTIFICATIONS	VDE 0660 IEC/EN 60947 IEC/EN 60947-3 IEC/EN 60204
CATALOG NOTES	Rated Short-time Withstand Current (lcw) for a time of 1 second
MODEL CODE	T0-2-95/I1



Features & Functions	5
FEATURES	Complete device in housing
FITTED WITH:	Black thumb grip and front plate 0 (off) position
INSCRIPTION	0-3
NUMBER OF POLES	Single-pole

DEGREE OF PROTECTION IP65 DEGREE OF PROTECTION IP65 (FRONT SIDE) NEMA 12 LIFESPAN, MECHANICAL 400,000 Op MOUNTING METHOD Surface model and surface model. MOUNTING POSITION As required.	<u>'</u>
(FRONT SIDE) LIFESPAN, MECHANICAL 400,000 Op MOUNTING METHOD Surface mo	<u>'</u>
MOUNTING METHOD Surface mo	<u>'</u>
	ounting
MOUNTING POSITION As required	
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NUMBER OF CONTACT UNITS 2	
OPERATING FREQUENCY 1200 Oper	ations/h
OVERVOLTAGE III	
POLLUTION DEGREE 3	
PRODUCT CATEGORY Control sw	ritches
RATED IMPULSE WITHSTAND VOLTAGE 6000 V AC (UIMP)	
	Between the According to EN
SAFETY PARAMETER (EN B10d value ISO 13849-1) 13849-1, ta	es as per EN ISO able C.1
SHOCK RESISTANCE 15 g, Mech According 60068-2-27 sinusoidal	to IEC/EN
SUITABLE FOR Ground mo	ounting
SWITCHING ANGLE 60 °	
TYPE Step switch	n for heating

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 (FLEXIBLE WITH FERRULE)	2 x (0.75 - 2.5) mm ² , ferrules to DIN 46228 1 x (0.75 - 2.5) mm ² , 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

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 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 L/R = 1 MS	10 A
RATED OPERATIONAL CURRENT (IE) AT DC-13,	10 A

CONTROL SWITCHES L/R

Short-circuit rating RATED CONDITIONAL SHORT-CIRCUIT CURRENT 6 kA (IQ) RATED SHORT-TIME WITHSTAND CURRENT 320 A, Contacts, 1 second (ICW)

20 A gG/gL, Fuse, Contacts

SHORT-CIRCUIT

PROTECTION RATING

RATED OPERATIONAL CURRENT (IE) AT DC-21, 1 A 240 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 10 A 24 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 10 A 48 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 10 A 60 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 120 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 240 V RATED OPERATIONAL
CURRENT (IE) AT DC-23A, 10 A 24 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 10 A 48 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 10 A 60 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 120 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 240 V
CURRENT (IE) AT DC-23A, 10 A 48 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 10 A 60 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 120 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 240 V
CURRENT (IE) AT DC-23A, 10 A 60 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 120 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 240 V
CURRENT (IE) AT DC-23A, 5 A 120 V RATED OPERATIONAL CURRENT (IE) AT DC-23A, 5 A 240 V
CURRENT (IE) AT DC-23A, 5 A 240 V
RATED OPERATIONAL
CURRENT (IE) STAR- 20 A DELTA AT AC-3, 230 V
RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 400 V
RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 500 V
RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 690 V
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 5.5 kW HZ
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 4 kW HZ
POWER AT AC-23A, 3 kW 220/230 V, 50 HZ
RATED OPERATIONAL POWER AT AC-23A, 400 V, 5.5 kW 50 HZ
RATED OPERATIONAL POWER AT AC-23A, 500 V, 7.5 kW 50 HZ
RATED OPERATIONAL POWER AT AC-23A, 690 V, 5.5 kW 50 HZ

POWER STAR-DELTA AT 220/230 V, 50 HZ	
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.

Switching capacity	
LOAD RATING	2 x l _e (with intermittent operation class 12, 25 % duty factor) 1.3 x l _e (with intermittent operation class 12, 60 % duty factor) 1.6 x l _e (with intermittent operation class 12, 40 % 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 CONTACTS	4

Actuator	
ACTUATOR FUNCTION	Maintained With 0 (Off) position
ACTUATOR TYPE	Toggle
NUMBER OF SWITCH POSITIONS	4

Design 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.
	EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID HEAT DISSIPATION CAPACITY PDISS HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS 10.2.2 CORROSION RESISTANCE 10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT 10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION 10.2.5 LIFTING 10.2.6 MECHANICAL IMPACT 10.2.7 INSCRIPTIONS 10.3 DEGREE OF PROTECTION OF ASSEMBLIES 10.4 CLEARANCES AND CREEPAGE DISTANCES 10.5 PROTECTION AGAINST ELECTRIC

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	ls 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-00004927.pdf DA-DC-00004895.pdf
	<u>eaton-rotary-switches-dimensions-t0-step-switch-dimensions.eps</u>
DRAWINGS	eaton-rotary-switches-t0-changeover-switch- dimensions.eps
	<u>eaton-rotary-switches-front-plate-t0-step-switch-symbol-022.eps</u>
	eaton-general-rotary-switch-t0-step-switch-symbol.eps
	eaton-general-totally-insulated-t0-main-switch- symbol.eps
ECAD MODEL	DA-CE-ETN.T0-2-95 11
INSTALLATION INSTRUCTIONS	<u>IL03801007Z2021_06.pdf</u>
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CD-bauform2 DA-CS-bauform2
PRODUCT	MZ008006ZU_Orderform_Customized_Switch.pdf
NOTIFICATIONS	MZ008005ZU Orderform Customized Switch.pdf
WIRING DIAGRAMS	eaton-rotary-switches-t0-step-switch-wiring-diagram-003.eps
	eaton-rotary-switches-t0-step-switch-wiring- diagram-004.eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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