Specifications

Photo is representative

Eaton 020484

Eaton Moeller® series T3 Multi-speed switches, T3, 32 A, flush mounting, 4 contact unit(s), Contacts: 7, 60 °, maintained, With 0 (Off) position, 0-1-2, SOND 29, Design number 47

General specification	S
PRODUCT NAME	Eaton Moeller® series T3 Multi-speed switch
CATALOG NUMBER	020484
EAN	4015080204848
PRODUCT LENGTH/DEPTH	114 mm
PRODUCT HEIGHT	54 mm
PRODUCT WIDTH	61 mm
PRODUCT WEIGHT	0.252 kg
CERTIFICATIONS	UL CSA File No.: 012528 CE CSA-C22.2 No. 60947-4-1- 14 IEC/EN 60204 IEC/EN 60947 VDE 0660 CSA UL 60947-4-1 UL Category Control No.: NLRV UL File No.: E36332 CSA Class No.: 3211-05
	IEC/EN 60947-3 CSA-C22.2 No. 94
CATALOG NOTES	IEC/EN 60947-3



Features & Functions	
ENCLOSURE MATERIAL	Plastic
FITTED WITH:	0 (off) position Black thumb grip and front plate
INSCRIPTION	0-1-2
NUMBER OF POLES	3
SWITCH FUNCTION TYPE	2 speeds, 2 separate windings

General	
DEGREE OF PROTECTION	NEMA 1 IP65 NEMA 12
DEGREE OF PROTECTION (FRONT SIDE)	IP65 NEMA 12
LIFESPAN, MECHANICAL	500,000 Operations
MODEL	Pole switch
MOUNTING METHOD	Flush mounting
MOUNTING POSITION	As required
NUMBER OF CONTACT UNITS	4
OPERATING FREQUENCY	1200 Operations/h
OVERVOLTAGE CATEGORY	Ш
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	Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting
SWITCHING ANGLE	60 °
ТҮРЕ	Multi-speed switch

Climatic environmental conditions	
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 (FLEXIBLE WITH FERRULE)	1 x (0.75 - 4) mm ² , ferrules to DIN 46228 2 x (0.75 - 4) mm ² , ferrules to DIN 46228
TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG)	14 - 10
TERMINAL CAPACITY (SOLID/STRANDED)	1 x (1 - 6) mm ² 2 x (1 - 6) mm ²
SCREW SIZE	M4, Terminal screw
TIGHTENING TORQUE	17.7 lb-in, Screw terminals 1.6 Nm, Screw terminals

Electrical rating	
RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)	260 A
RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)	260 A
RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)	240 A
RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)	170 A
RATED OPERATIONAL CURRENT (IE)	32 A at AC-3, 230 V stardelta 25.5 A at AC-3, 690 V stardelta 32 A at AC-3, 500 V stardelta 32 A at AC-3, 400 V stardelta
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	23.7 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	23.7 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	23.7 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	14.7 A
RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	26.4 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V	17 A
RATED OPERATIONAL CURRENT (IE) AT DC-1,	25 A

CURRENT (IE) AT DC-1,

Short-circuit rating	
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	650 A, Contacts, 1 second
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	40A, max. Fuse, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT)	40 A, Class J, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING	35 A gG/gL, Fuse, Contacts

LOAD-BREAK SWITCHES L/R = 1 MS	
RATED OPERATIONAL CURRENT (IE) AT DC-13, CONTROL SWITCHES L/R = 50 MS	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-21, 240 V	1 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V	25 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V	25 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V	25 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V	12 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 240 V	5 A
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	12 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	15 kW
RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ	15 kW
RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ	15 kW
RATED OPERATIONAL POWER STAR-DELTA AT 220/230 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER STAR-DELTA AT	15 kW

380/400 V, 50 HZ	
RATED OPERATIONAL POWER STAR-DELTA AT 500 V, 50 HZ	18.5 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)	32 A
UNINTERRUPTED CURRENT	Rated uninterrupted current lu is specified for max. cross-section.

Switching capacity	
LOAD RATING	$1.6 \times l_e$ (with intermittent operation class 12, 40 % duty factor) $2 \times l_e$ (with intermittent operation class 12, 25 % duty factor) $1.3 \times l_e$ (with intermittent operation class 12, 60 % duty factor)
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)	25 A, Rated uninterrupted current max. (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, IU, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600 (UL/CSA) P600 (UL/CSA)
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	320 A
VOLTAGE PER CONTACT PAIR IN SERIES	60 V

PAIR IN SERIES

ASSIGNED MOTOR POWER AT 115/120 V, 60 1.5 HP HZ, 1-PHASE ASSIGNED MOTOR POWER AT 200/208 V, 60 3 HP HZ, 1-PHASE ASSIGNED MOTOR POWER AT 200/208 V, 60 3 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 3 HP HZ, 1-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 3 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 7.5 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 7.5 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 10 HP	Motor rating	
POWER AT 200/208 V, 60 3 HP HZ, 1-PHASE ASSIGNED MOTOR POWER AT 200/208 V, 60 3 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 3 HP HZ, 1-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 3 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 7.5 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 10 HP	POWER AT 115/120 V, 60	1.5 HP
POWER AT 200/208 V, 60 3 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 3 HP HZ, 1-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 3 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 7.5 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 10 HP	POWER AT 200/208 V, 60	3 HP
POWER AT 230/240 V, 60 3 HP HZ, 1-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 3 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 7.5 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 10 HP	POWER AT 200/208 V, 60	3 HP
POWER AT 230/240 V, 60 3 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 7.5 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 10 HP	POWER AT 230/240 V, 60	3 HP
POWER AT 460/480 V, 60 7.5 HP HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 10 HP	POWER AT 230/240 V, 60	3 HP
POWER AT 575/600 V, 60 10 HP	POWER AT 460/480 V, 60	7.5 HP
TL, 5-PTASE	7.001011220101	10 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
NUMBER OF CONTACTS	7

Actuator	
ACTUATOR FUNCTION	Maintained With 0 (Off) position
ACTUATOR TYPE	Short thumb-grip

Design verification	
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	1.1 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	32 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	ls 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-00004894.pdf DA-DC-00004923.pdf
DRAWINGS	eaton-rotary-switches-mounting-t3-changeover- switch-dimensions.eps

	eaton-general-rotary-switch-t0-step-switch-symbol-002.eps eaton-rotary-switches-front-plate-t0-step-switch-symbol-006.eps
ECAD MODEL	ETN.020484.edz
INSTALLATION INSTRUCTIONS	IL03801020Z
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CS-t3 4 e DA-CD-t3 4 e
PRODUCT	MZ008005ZU Orderform Customized Switch.pdf
NOTIFICATIONS	MZ008006ZU_Orderform_Customized_Switch.pdf
WIRING DIAGRAMS	eaton-rotary-switches-t0-multi-speed-switch-wiring-diagram-046.eps eaton-rotary-switches-t0-multi-speed-switch-
	wiring-diagram-045.eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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