Specifications





Eaton 221642

Eaton Moeller® series T3 Star-delta switch, 32 A, surface mounting, 5 contact units, Contacts: 10, 60 °, maintained, 0 (Off) position, spring-return, B>0-Y-D, Design no. 15892

General specifications	
PRODUCT NAME	Eaton Moeller® series T3 Star-delta switch
CATALOG NUMBER	221642
MODEL CODE	T3-5-15892/I2
EAN	4015082216429
PRODUCT LENGTH/DEPTH	181 mm
PRODUCT HEIGHT	180 mm
PRODUCT WIDTH	100 mm
PRODUCT WEIGHT	0.658 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	EN 60947-3 UL 508 CSA Std. C22.2 No. 14-05 IEC 60947 VDE UL CSA CSA File No.: 012528 UL Category Control No.: NLRV UL File No.: E36332 CSA-C22.2 No. 60947-4-1-14 CSA Class No.: 3211-07 VDE 0660 CSA-C22.2 No. 94 IEC/EN 60204 CE IEC/EN 60947 IEC/EN 60947-3 UL 60947-4-1
CATALOG NOTES	Rated Short-time Withstand Current (Icw) for a time of 1 second
GLOBAL CATALOG	221642
PRODUCT TYPE	Star-delta switch

Powering Business Worldwide

Product specifications

TYPE	Star-delta switch
ACCESSORIES	Black thumb grip and front plate
AMPERAGE RATING	32A
PRODUCT CATEGORY	Control switches
VOLTAGE RATING	690 V
FEATURES	Complete device in housing
ACTUATOR FUNCTION	Spring-return to 0 Maintained With 0 (Off) position
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.
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.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
FITTED WITH:	Black thumb grip and front plate Retraction in 0-position 0 (off) position
OPERATING FREQUENCY	1200 Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
ENCLOSURE MATERIAL	Plastic
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
ACTUATOR TYPE	Short thumb-grip
AMBIENT OPERATING TEMPERATURE - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE	40 °C

(ENCLOSED) - MAX	
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	1.5 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE	3 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	3 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	3 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	3 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	7.5 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	10 HP
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	1.1 W
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 CONTACT UNITS	5
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	650 A, Contacts, 1 second
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
MOUNTING POSITION	As required
RATED CONDITIONAL	1 kA

SHORT-CIRCUIT CURRENT (IQ)	
MOUNTING METHOD	Surface mounting
OVERVOLTAGE CATEGORY	III
CONTROL CIRCUIT RELIABILITY	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
NUMBER OF POLES	3
DEGREE OF PROTECTION	NEMA 1 NEMA 12 IP65
NUMBER OF CONTACTS	10
MODEL	Star-delta switch
DEGREE OF PROTECTION (FRONT SIDE)	IP65 NEMA 12
INSCRIPTION	" B>0-Y-D "
LIFESPAN, MECHANICAL	500,000 Operations
SAFE ISOLATION	440 V AC, Between the contacts, According to EN 61140
RATED OPERATIONAL CURRENT (IE)	32 A at AC-3, 230 V star-delta 32 A at AC-3, 400 V star-delta 25.5 A at AC-3, 690 V star-delta 32 A at AC-3, 500 V star-delta
SCREW SIZE	M4, Terminal screw
SHOCK RESISTANCE	12 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
LOAD RATING	1.3 x I_e (with intermittent operation class 12, 60 % duty factor) 2 x I_e (with intermittent operation class 12, 25 % duty factor) 1.6 x I_e (with intermittent operation class 12, 40 % duty factor)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, IU, (UL/CSA)
TIGHTENING TORQUE	1.6 Nm, Screw terminals 17.7 lb-in, Screw terminals
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600 (UL/CSA) P600 (UL/CSA)

NUMBER OF CONTACTS IN SERIES AT DC-21A, 240 V	1
NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V	3
NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V	1
NUMBER OF CONTACTS IN SERIES AT DC-23A, 240 V	5
NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V	2
NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V	3
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 MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	320 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 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
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	25 A, Rated uninterrupted current max. (UL/CSA)
SAFETY PARAMETER (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
SHORT-CIRCUIT PROTECTION RATING	35 A gG/gL, Fuse, Contacts
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 4) mm², ferrules to DIN 46228 2 x (0.75 - 4) mm², ferrules to DIN 46228
SUITABLE FOR	Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting
RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS	25 A
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, 120 V	12 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V	25 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 240 V	5 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 FOR SPECIFIED HEAT DISSIPATION (IN)	32 A
RATED OPERATIONAL POWER AT AC-23A,	7.5 kW

220/230 V, 50 HZ	
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 AT AC-3, 380/400 V, 50 HZ	18.5 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 STAR-DELTA AT 220/230 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER STAR-DELTA AT 380/400 V, 50 HZ	15 kW
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
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
SWITCHING ANGLE	60 °
VOLTAGE PER CONTACT PAIR IN SERIES	60 V
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT)	10 kA, SCCR (UL/CSA) 40 A, Class J, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	5 kA, SCCR (UL/CSA) 40A, max. Fuse, SCCR (UL/CSA)
TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG)	14 - 10

TERMINAL CAPACITY (SOLID/STRANDED)	2 x (1 - 6) mm² 1 x (1 - 6) mm²
UNINTERRUPTED CURRENT	Rated uninterrupted current Iu is specified for max. cross-section.
DESIGN	15892
SWITCHING CAPACITY	1.5 HP at 120 V AC, single-phase 10 HP at 600 V AC, three-phase 3 HP at 200 V AC, single-phase 3 HP at 200 V AC, three-phase 3 HP at 240 V AC, single-phase 3 HP at 240 V AC, three-phase 7.5 HP at 480 V AC, three-phase

Resources

BROCHURES	Brochure - T Rotary Cam switch and P Switch-disconnector
CATALOGS	P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN P1-40 Switch-disconnectors
DECLARATIONS OF CONFORMITY	eaton-changeover-switch-declaration-of-conformity-uk260199en.pdf eaton-main-switch-declaration-of-conformity-eu260188en.pdf
DRAWINGS	eaton-rotary-switches-dimensions-t3-main-switch-dimensions.eps eaton-rotary-switches-t3-changeover-switch-dimensions-003.eps eaton-general-rotary-switch-t0-step-switch-symbol.eps eaton-rotary-switches-front-plate-t0-star-delta-switch-symbol-002.eps eaton-general-totally-insulated-t0-main-switch-symbol.eps
ECAD MODEL	ETN.221642.edz
INSTALLATION INSTRUCTIONS	IL03801008Z2021_06.pdf
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CS-bauform10 eaton-cam-switches-mcad-drawings-bauform10.dwg
PRODUCT	MZ008005ZU_Orderform_Customized_Switch.pdf

NOTIFICATIONS	MZ008006ZU_Orderform_Customized_Switch.pdf
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 221642
WIRING DIAGRAMS	eaton-rotary-switches-t0-star-delta-switch-wiring-diagram-017.eps eaton-rotary-switches-t0-star-delta-switch-wiring-diagram-018.eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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