

Specifications

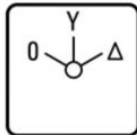


Photo is representative

Eaton 092160

Eaton Moeller® series T5B Star-delta switch, 63 A, flush mounting, 4 contact units, Contacts: 8, 60 °, maintained, 0 (Off) position, 0-Y-D, Design number 3

General specifications

PRODUCT NAME	Eaton Moeller® series T5B Star-delta switch
CATALOG NUMBER	092160
MODEL CODE	T5B-4-3/E
EAN	4015080921608
PRODUCT LENGTH/DEPTH	141 mm
PRODUCT HEIGHT	88 mm
PRODUCT WIDTH	88 mm
PRODUCT WEIGHT	0.725 kg
CERTIFICATIONS	IEC/EN 60947-3 CSA Class No.: 3211-07 CSA-C22.2 No. 94 UL 60947-4-1 CSA File No.: 012528 CE UL File No.: E36332 CSA-C22.2 No. 60947-4-1-14 IEC/EN 60204 VDE 0660 UL UL Category Control No.: NLRV IEC/EN 60947 CSA
CATALOG NOTES	Rated Short-time Withstand Current (I _{cw}) for a time of 1 second



Powering Business Worldwide

Actuator

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

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	8

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Design verification

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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 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

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)** 63 A at AC-3, 400 V star-
delta
29.4 A at AC-3, 690 V star-
delta
57.2 A at AC-3, 500 V star-
delta
63 A at AC-3, 230 V star-
delta

**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 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 DC-1,
LOAD-BREAK SWITCHES
L/R = 1 MS** 63 A

RATED OPERATIONAL 25 A

Features & functions

ENCLOSURE MATERIAL Plastic

FITTED WITH: 0 (off) position
Black thumb grip and
front plate

INSCRIPTION 0-Y-D

NUMBER OF POLES 3

CURRENT (IE) AT DC-13, CONTROL SWITCHES L/R = 50 MS	
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V	25 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V	50 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 240 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V	50 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V	50 A
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 AT AC-3, 380/400 V, 50 HZ	37 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 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 OPERATIONAL VOLTAGE (UE) AT AC -	690 V

MAX	
RATED UNINTERRUPTED CURRENT (IU)	63 A
UNINTERRUPTED CURRENT	Rated uninterrupted current I _u is specified for max. cross-section.

General information	
DEGREE OF PROTECTION	IP65 NEMA 12 NEMA 1
DEGREE OF PROTECTION (FRONT SIDE)	IP65 NEMA 12
LIFESPAN, MECHANICAL	500,000 Operations
MODEL	Star-delta switch
MOUNTING METHOD	Flush mounting
MOUNTING POSITION	As required
NUMBER OF CONTACT UNITS	4
OPERATING FREQUENCY	1200 Operations/h
OVERVOLTAGE CATEGORY	III
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 °
TYPE	Star-delta switch

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

Short-circuit rating

**RATED CONDITIONAL
SHORT-CIRCUIT CURRENT (IQ)** 2 kA

**RATED SHORT-TIME
WITHSTAND CURRENT (ICW)** 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 1.3 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)

**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** 6

**NUMBER OF CONTACTS
IN SERIES AT DC-23A, 48 V** 2

**NUMBER OF CONTACTS
IN SERIES AT DC-23A, 60 V** 3

**RATED MAKING
CAPACITY UP TO 690 V
(COS PHI TO IEC/EN
60947-3)** 800 A

**SWITCHING CAPACITY
(MAIN CONTACTS,
GENERAL USE)** 63 A, Rated uninterrupted
current max. (UL/CSA)

**VOLTAGE PER CONTACT
PAIR IN SERIES** 60 V

Terminal capacities

SCREW SIZE M6, Terminal screw

**TERMINAL CAPACITY
(FLEXIBLE WITH
FERRULE)** 1 x (1 - 25) mm², ferrules
to DIN 46228
2 x (1.5 - 10) mm², ferrule
to DIN 46228

**TERMINAL CAPACITY
(SOLID/FLEXIBLE WITH
FERRULE AWG)** 12 - 4

**TERMINAL CAPACITY
(SOLID/STRANDED)** 1 x (2.5 - 35) mm²
2 x (2.5 - 16) mm²

TIGHTENING TORQUE 4 Nm, Screw terminals
35.4 lb-in, Screw terminals

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	eaton-changeover-switch-declaration-of-conformity-eu251494en.pdf
DRAWINGS	eaton-rotary-switches-mounting-t5b-non-standard-switch-dimensions-004.eps eaton-rotary-switches-front-plate-t0-star-delta-switch-symbol-006.eps eaton-general-rotary-switch-t0-step-switch-symbol-002.eps
ECAD MODEL	ETN.092160.edz
INSTALLATION INSTRUCTIONS	IL03801009Z
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CS-t5(b) 4 e eaton-cam-switches-mcad-drawings-t5-b-4-e.dwg
PRODUCT NOTIFICATIONS	MZ008005ZU_Orderform_Customized_Switch.pdf MZ008006ZU_Orderform_Customized_Switch.pdf
WIRING DIAGRAMS	eaton-rotary-switches-t0-star-delta-switch-wiring-diagram-003.eps eaton-rotary-switches-t0-star-delta-switch-wiring-diagram-004.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

© 2026 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.

