

Specifications

Eaton 207182

Eaton Moeller® series T3 On-Off switch, T3, 32 A, surface mounting, 3 contact unit(s), 3 pole, 2 N/O, 1 N/C, with black thumb grip and front plate

General specifications

PRODUCT NAME	Eaton Moeller® series T3 On-off switch
CATALOG NUMBER	207182
EAN	4015082071820
PRODUCT LENGTH/DEPTH	181 mm
PRODUCT HEIGHT	127 mm
PRODUCT WIDTH	100 mm
PRODUCT WEIGHT	0.563 kg
CERTIFICATIONS	UL File No.: E36332 VDE 0660 CSA Class No.: 3211-07 UL CE CSA-C22.2 No. 60947-4-1-14 CSA CSA-C22.2 No. 94 IEC/EN 60947-3 UL Category Control No.: NLRV CSA File No.: 012528 IEC/EN 60204 UL 60947-4-1 IEC/EN 60947
CATALOG NOTES	Rated Short-time Withstand Current (I _{cw}) for a time of 1 second
MODEL CODE	T3-3-15683/I2



Powering Business Worldwide

Features & Functions

FITTED WITH: Black thumb grip and front plate

INSCRIPTION 0-1

NUMBER OF POLES 3

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 III

POLLUTION DEGREE 3

PRODUCT CATEGORY On-Off 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 12 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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

Terminal capacities

TERMINAL CAPACITY	1 x (0.75 - 4) mm ² , flexible with ferrules to DIN 46228 2 x (1 - 6) mm ² , solid or stranded 1 x (1 - 6) mm ² , solid or stranded 2 x (0.75 - 4) mm ² , flexible with ferrules to DIN 46228 14 - 10 AWG, solid or flexible with ferrule
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) 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, 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, 1 A

Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ) 1 kA

RATED SHORT-TIME WITHSTAND CURRENT (ICW) 0.65 kA
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

240 V	
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 CURRENT (IE) STAR-DELTA AT AC-3, 220/230 V	32 A
RATED OPERATIONAL CURRENT (IE) STAR-DELTA AT AC-3, 380/400 V	32 A
RATED OPERATIONAL CURRENT (IE) STAR-DELTA AT AC-3, 500 V	32 A
RATED OPERATIONAL CURRENT (IE) STAR-DELTA AT AC-3, 690 V	25.5 A
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	11 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	7.5 kW

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

RATED OPERATIONAL POWER STAR-DELTA AT 380/400 V, 50 HZ	15 kW
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RATED OPERATIONAL POWER STAR-DELTA AT 500 V, 50 HZ	18.5 kW
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RATED OPERATIONAL POWER STAR-DELTA AT 690 V, 50 HZ	22 kW
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RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
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RATED UNINTERRUPTED CURRENT (IU)	32 A
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UNINTERRUPTED CURRENT	Rated uninterrupted current Iu is specified for max. cross-section.
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Switching capacity

LOAD RATING	1.3 x I _e (with intermittent operation class 12, 60 % duty factor)
	1.6 x I _e (with intermittent operation class 12, 40 % duty factor)
	2 x I _e (with intermittent operation class 12, 25 % duty factor)

NUMBER OF CONTACTS IN SERIES AT DC-21A, 240 V	1
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NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V	1
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NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V	2
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NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V	3
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NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V	3
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NUMBER OF CONTACTS IN SERIES AT DC-23A, 240 V	5
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SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	25 A, Rated uninterrupted current max. (UL/CSA)
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SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, IU, (UL/CSA)
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SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P600 (UL/CSA) A600 (UL/CSA)
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RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	320 A
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VOLTAGE PER CONTACT PAIR IN SERIES	60 V
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Motor rating

ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	1.5 HP
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ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE	3 HP
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ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	3 HP
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ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	3 HP
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ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	3 HP
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ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	7.5 HP
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ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	10 HP
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Contacts

CONTROL CIRCUIT RELIABILITY	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
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NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
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NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
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NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	2
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Actuator

ACTUATOR COLOR	Black
ACTUATOR FUNCTION	Maintained
ACTUATOR TYPE	Short thumb-grip

Design verification

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	1.1 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	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.
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-00004923.pdf](#) [DA-DC-00004894.pdf](#)

DRAWINGS

[eaton-rotary-switches-dimensions-t3-main-switch-dimensions.eps](#)

[eaton-rotary-switches-t3-changeover-switch-dimensions-002.eps](#)

[eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-002.eps](#)

[eaton-rotary-switches-surface-mounting-t0-changeover-switch-3d-drawing.eps](#)

[eaton-general-totally-insulated-t0-main-switch-symbol.eps](#)

[eaton-general-rotary-switch-t0-step-switch-symbol.eps](#)

ECAD MODEL [ETN.207182.edz](#)

INSTALLATION INSTRUCTIONS [IL03801008Z2021_06.pdf](#)

INSTALLATION VIDEOS [Eaton's P Switch-disconnectors used in a factory](#)

MCAD MODEL [DA-CD-bauform8](#) [DA-CS-bauform8](#)

PRODUCT NOTIFICATIONS [MZ008006ZU_Orderform_Customized_Switch.pdf](#)

[MZ008005ZU_Orderform_Customized_Switch.pdf](#)

WIRING DIAGRAMS [eaton-rotary-switches-switch-t0-main-switch-wiring-diagram-002.eps](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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