

Specifications

Eaton 016318

Eaton Moeller® series T3 On-Off switch, T3, 32 A, flush mounting, 1 contact unit(s), 2 pole, Emergency switching off function, with red thumb grip and yellow front plate

General specifications

PRODUCT NAME	Eaton Moeller® series T3 On-off switch
CATALOG NUMBER	016318
EAN	4015080163183
PRODUCT LENGTH/DEPTH	79 mm
PRODUCT HEIGHT	54 mm
PRODUCT WIDTH	61 mm
PRODUCT WEIGHT	0.11 kg
CERTIFICATIONS	CSA File No.: 012528 VDE 0660 UL File No.: E36332 IEC/EN 60947 IEC/EN 60947-3 UL 60947-4-1 UL Category Control No.: NLRV CE IEC/EN 60204 UL CSA CSA Class No.: 3211-05 CSA-C22.2 No. 60947-4-1-14 CSA-C22.2 No. 94
CATALOG NOTES	Rated Short-time Withstand Current (I _{cw}) for a time of 1 second
MODEL CODE	T3-1-102/E-RT



Powering Business Worldwide

Features & Functions

FEATURES	Version as emergency stop installation
FITTED WITH:	Red thumb grip and yellow front plate
FUNCTIONS	Emergency switching off function
INSCRIPTION	0-1
NUMBER OF POLES	2

General

DEGREE OF PROTECTION	NEMA 12
DEGREE OF PROTECTION (FRONT SIDE)	IP65
LIFESPAN, MECHANICAL	500,000 Operations
MOUNTING METHOD	Flush mounting
MOUNTING POSITION	As required
NUMBER OF CONTACT UNITS	1
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	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
SUITABLE FOR	Front mounting 4-hole Branch circuits, suitable as motor disconnect, (UL/CSA)
SWITCHING ANGLE	90 °

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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

Terminal capacities

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

SHORT-CIRCUIT CURRENT RATING (BASIC RATING) 40A, max. Fuse, SCCR (UL/CSA)
5 kA, SCCR (UL/CSA)

SHORT-CIRCUIT CURRENT RATING (HIGH FAULT) 10 kA, SCCR (UL/CSA)
40 A, Class J, max. Fuse, 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	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)
	1.3 x I _e (with intermittent operation class 12, 60 % 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)	A600 (UL/CSA) P600 (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)	0
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NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
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Actuator

ACTUATOR COLOR	Red
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ACTUATOR FUNCTION	Maintained
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ACTUATOR TYPE	Short thumb-grip
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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	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-00004894.pdf](#) [DA-DC-00004923.pdf](#)

DRAWINGS

[eaton-rotary-switches-mounting-t3-changeover-switch-dimensions-017.eps](#)

[eaton-general-rotary-switch-t0-step-switch-symbol-002.eps](#)

[eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-003.eps](#)

[eaton-rotary-switches-mounting-t0-changeover-switch-3d-drawing-002.eps](#)

ECAD MODEL [ETN.T3-1-102_E-RT](#)

INSTALLATION INSTRUCTIONS [IL03801020Z](#)

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

MCAD MODEL [DA-CD-t3_1_e](#) [DA-CS-t3_1_e](#)

PRODUCT NOTIFICATIONS [MZ008005ZU_Orderform_Customized_Switch.pdf](#)
[MZ008006ZU_Orderform_Customized_Switch.pdf](#)

SPECIFICATIONS AND DATASHEETS [Eaton Specification Sheet - T3-1-102/E-RT](#)

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

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc

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

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