

Specifications

Photo is representative

Eaton 207135

Eaton Moeller® series T0 On-Off switch, 6 pole + 1 N/O + 1 N/C, 20 A, 90 °, surface mounting T0-4-15682/I1

General specifications

PRODUCT NAME	Eaton Moeller® series T0 On-off switch
CATALOG NUMBER	207135
EAN	4015082071356
PRODUCT LENGTH/DEPTH	137 mm
PRODUCT HEIGHT	122 mm
PRODUCT WIDTH	80 mm
PRODUCT WEIGHT	0.36 kg
CERTIFICATIONS	IEC/EN 60947 VDE 0660 IEC/EN 60204 IEC/EN 60947-3
CATALOG NOTES	Rated Short-time Withstand Current (Icw) for a time of 1 second
MODEL CODE	T0-4-15682/I1

Features & Functions

FITTED WITH:	Black thumb grip and front plate
INSCRIPTION	0-1
NUMBER OF POLES	6

General

DEGREE OF PROTECTION	NEMA 12
DEGREE OF PROTECTION (FRONT SIDE)	IP65
LIFESPAN, MECHANICAL	400,000 Operations
MOUNTING METHOD	Surface mounting
MOUNTING POSITION	As required
NUMBER OF CONTACT UNITS	4
OPERATING FREQUENCY	1200 Operations/h
OVERTVOLTAGE 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	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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Terminal capacities

TERMINAL CAPACITY	1 x (1 - 2.5) mm ² , solid or stranded 2 x (0.75 - 2.5) mm ² , flexible with ferrules to DIN 46228 2 x (1 - 2.5) mm ² , solid or stranded 1 x (0.75 - 2.5) mm ² , flexible with ferrules to DIN 46228
SCREW SIZE	M3.5, Terminal screw
TIGHTENING TORQUE	8.8 lb-in, Screw terminals 1 Nm, Screw terminals

Electrical rating

RATED BREAKING

CAPACITY AT 220/230 V 100 A
(COS PHI TO IEC 60947-3)

RATED BREAKING

CAPACITY AT 400/415 V 110 A
(COS PHI TO IEC 60947-3)

RATED BREAKING

CAPACITY AT 500 V (COS PHI TO IEC 60947-3) 80 A

RATED BREAKING

CAPACITY AT 660/690 V 60 A
(COS PHI TO IEC 60947-3)

RATED OPERATIONAL

CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V 11.5 A

RATED OPERATIONAL

CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V 11.5 A

RATED OPERATIONAL

CURRENT (IE) AT AC-3, 500 V 9 A

RATED OPERATIONAL

CURRENT (IE) AT AC-3, 660 V, 690 V 4.9 A

RATED OPERATIONAL

CURRENT (IE) AT AC-21, 440 V 20 A

RATED OPERATIONAL

CURRENT (IE) AT AC-23A, 230 V 13.3 A

RATED OPERATIONAL

CURRENT (IE) AT AC-23A, 400 V, 415 V 13.3 A

RATED OPERATIONAL

CURRENT (IE) AT AC-23A, 500 V 13.3 A

RATED OPERATIONAL

CURRENT (IE) AT AC-23A, 690 V 7.6 A

RATED OPERATIONAL

CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R 10 A
L/R = 1 MS

RATED OPERATIONAL

CURRENT (IE) AT DC-13, CONTROL SWITCHES L/R 10 A
= 50 MS

RATED OPERATIONAL

CURRENT (IE) AT DC-21, 1 A

Short-circuit rating

RATED CONDITIONAL

SHORT-CIRCUIT CURRENT (IQ) 6 kA

RATED SHORT-TIME

WITHSTAND CURRENT (ICW) 320 A, Contacts, 1 second
0.32 kA

SHORT-CIRCUIT

PROTECTION RATING 20 A gG/gL, Fuse, Contacts

240 V

RATED OPERATIONAL

CURRENT (IE) AT DC-23A, 10 A

24 V

RATED OPERATIONAL

CURRENT (IE) AT DC-23A, 10 A

48 V

RATED OPERATIONAL

CURRENT (IE) AT DC-23A, 10 A

60 V

RATED OPERATIONAL

CURRENT (IE) AT DC-23A, 5 A

120 V

RATED OPERATIONAL

CURRENT (IE) AT DC-23A, 5 A

240 V

RATED OPERATIONAL

CURRENT (IE) STAR- 20 A

DELTA AT AC-3, 220/230 V

RATED OPERATIONAL

CURRENT (IE) STAR- 20 A

DELTA AT AC-3, 380/400 V

RATED OPERATIONAL

CURRENT (IE) STAR- 15.6 A

DELTA AT AC-3, 500 V

RATED OPERATIONAL

CURRENT (IE) STAR- 8.5 A

DELTA AT AC-3, 690 V

RATED OPERATIONAL

POWER AT AC-3, 380/400 5.5 kW

V, 50 HZ

RATED OPERATIONAL

POWER AT AC-3, 415 V, 50 5.5 kW

HZ

RATED OPERATIONAL

POWER AT AC-3, 690 V, 50 4 kW

HZ

RATED OPERATIONAL

POWER AT AC-23A, 3 kW

220/230 V, 50 HZ

RATED OPERATIONAL

POWER AT AC-23A, 400 V, 5.5 kW

50 HZ

RATED OPERATIONAL

POWER AT AC-23A, 500 V, 7.5 kW

50 HZ

RATED OPERATIONAL

POWER AT AC-23A, 690 V, 5.5 kW

50 HZ

RATED OPERATIONAL

POWER AT AC-23A, 690 V, 5.5 kW

50 HZ

5.5 kW

POWER STAR-DELTA AT**220/230 V, 50 HZ****RATED OPERATIONAL****POWER STAR-DELTA AT** 7.5 kW
380/400 V, 50 HZ**RATED OPERATIONAL****POWER STAR-DELTA AT** 7.5 kW
500 V, 50 HZ**RATED OPERATIONAL****POWER STAR-DELTA AT** 5.5 kW
690 V, 50 HZ**RATED OPERATIONAL****VOLTAGE (UE) AT AC -** 690 V
MAX**RATED UNINTERRUPTED****CURRENT (IU)** 20 A**UNINTERRUPTED**
CURRENTRated uninterrupted
current I_u is specified for
max. cross-section.

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-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
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	130 A
VOLTAGE PER CONTACT PAIR IN SERIES	60 V

Actuator

ACTUATOR COLOR	Black
ACTUATOR FUNCTION	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)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1

Design verification

EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0.6 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0.6 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	20 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-00004895.pdf](#) [DA-DC-00004927.pdf](#)

[eaton-rotary-switches-t0-changeover-switch-dimensions-002.eps](#)

[eaton-rotary-switches-dimensions-t0-step-switch-dimensions.eps](#)

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

DRAWINGS

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

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

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

ECAD MODEL [ETN.T0-4-15682 I1](#)

INSTALLATION INSTRUCTIONS [JL03801007Z2021_06.pdf](#)

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

MCAD MODEL [DA-CD-bauform4 DA-CS-bauform4](#)

PRODUCT NOTIFICATIONS [MZ008006ZU_Orderform_Customized_Switch.pdf](#)

WIRING DIAGRAMS [MZ008005ZU_Orderform_Customized_Switch.pdf](#)

[eaton-rotary-switches-switch-t0-main-switch-wiring-diagram-003.eps](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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