

# Specifications

Photo is representative

## Eaton 207158

Eaton Moeller® series T0 Main switch, T0, 20 A, surface mounting, 3 contact unit(s), 3 pole, 2 N/O, 1 N/C, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series T0 Main switch
<b>CATALOG NUMBER</b>	207158
<b>EAN</b>	4015082071585
<b>PRODUCT LENGTH/DEPTH</b>	137 mm
<b>PRODUCT HEIGHT</b>	130 mm
<b>PRODUCT WIDTH</b>	80 mm
<b>PRODUCT WEIGHT</b>	0.324 kg
<b>CERTIFICATIONS</b>	VDE 0660 IEC/EN 60204 IEC/EN 60947 IEC/EN 60947-3
<b>CATALOG NOTES</b>	Rated Short-time Withstand Current (Icw) for a time of 1 second
<b>MODEL CODE</b>	T0-3-15683/I1/SVB-SW

## Features & Functions

<b>FEATURES</b>	Version as main switch Version as maintenance- /service switch
<b>FITTED WITH:</b>	Black rotary handle and locking ring
<b>FUNCTIONS</b>	STOP function Interlockable
<b>LOCKING FACILITY</b>	Lockable in the 0 (Off) position
<b>NUMBER OF POLES</b>	3

## General

<b>DEGREE OF PROTECTION</b>	NEMA 12
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP65
<b>LIFESPAN, MECHANICAL</b>	400,000 Operations
<b>MOUNTING METHOD</b>	Surface mounting
<b>MOUNTING POSITION</b>	As required
<b>NUMBER OF CONTACT UNITS</b>	3
<b>OPERATING FREQUENCY</b>	1200 Operations/h
<b>OVERVOLTAGE CATEGORY</b>	III
<b>POLLUTION DEGREE</b>	3
<b>PRODUCT CATEGORY</b>	Main switch
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	6000 V AC
<b>SAFE ISOLATION</b>	440 V AC, Between the contacts, According to EN 61140
<b>SAFETY PARAMETER (EN ISO 13849-1)</b>	B10d values as per EN ISO 13849-1, table C.1
<b>SHOCK RESISTANCE</b>	15 g, Mechanical, According to IEC/EN 60068-2-27, Half- sinusoidal shock 20 ms
<b>SUITABLE FOR</b>	Ground mounting
<b>SWITCHING ANGLE</b>	90 °

## Climatic environmental conditions

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

## Terminal capacities

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

## Electrical rating

<b>RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)</b>	100 A
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<b>RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)</b>	110 A
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<b>RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)</b>	80 A
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<b>RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)</b>	60 A
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<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V</b>	11.5 A
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<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>	11.5 A
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<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V</b>	9 A
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<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V</b>	4.9 A
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<b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V</b>	20 A
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<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V</b>	13.3 A
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<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V</b>	13.3 A
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<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V</b>	13.3 A
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<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V</b>	7.6 A
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<b>RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS</b>	10 A
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<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, CONTROL SWITCHES L/R = 50 MS</b>	10 A
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<b>RATED OPERATIONAL CURRENT (IE) AT DC-21,</b>	1 A
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## Short-circuit rating

<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	6 kA
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<b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>	0.32 kA 320 A, Contacts, 1 second
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<b>SHORT-CIRCUIT PROTECTION RATING</b>	20 A gG/gL, Fuse, Contacts
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<b>240 V</b>	
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V</b>	10 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V</b>	10 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V</b>	10 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V</b>	5 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 240 V</b>	5 A
<b>RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 220/230 V</b>	20 A
<b>RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 380/400 V</b>	20 A
<b>RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 500 V</b>	15.6 A
<b>RATED OPERATIONAL CURRENT (IE) STAR- DELTA AT AC-3, 690 V</b>	8.5 A
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	5.5 kW
<b>RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ</b>	5.5 kW
<b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>	4 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ</b>	3 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ</b>	5.5 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ</b>	7.5 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ</b>	5.5 kW
<b>RATED OPERATIONAL</b>	5.5 kW

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

## Switching capacity

<b>LOAD RATING</b>	1.3 × I <sub>e</sub> (with intermittent operation class 12, 60 % duty factor)
	2 × I <sub>e</sub> (with intermittent operation class 12, 25 % duty factor)
	1.6 × I <sub>e</sub> (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 TYPE** Door coupling rotary drive

## 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)**

2

## 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

<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	UV resistance only in connection with protective shield.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>10.10 TEMPERATURE RISE</b>	The panel builder is

	responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	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](#)

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

[eaton-rotary-switches-surface-mounting-t0-main-switch-dimensions-002.eps](#)

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

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

[eaton-rotary-switches-t0-main-switch-symbol.eps](#)

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

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

**ECAD MODEL** [ETN.T0-3-15683 I1\\_SVB-SW.edz](#)

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

**MCAD MODEL** [DA-CD-bauform3](#) [DA-CS-bauform3](#)

**PEP ECO-PASSPORT** [EATO-00177-V01.01-EN.pdf](#)

**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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