

# Specifications

## Eaton 043619

Eaton Moeller® series T0 Main switch, T0, 20 A, rear mounting, 2 contact unit(s), 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series T0 Main switch
<b>CATALOG NUMBER</b>	043619
<b>MODEL CODE</b>	T0-2-1/V/SVB
<b>EAN</b>	4015080436195
<b>PRODUCT LENGTH/DEPTH</b>	128 mm
<b>PRODUCT HEIGHT</b>	74 mm
<b>PRODUCT WIDTH</b>	65 mm
<b>PRODUCT WEIGHT</b>	0.158 kg
<b>CERTIFICATIONS</b>	UL Category Control No.: NLRV IEC/EN 60947-3 UL 60947-4-1 UL VDE 0660 CSA-C22.2 No. 60947-4-1-14 CSA IEC/EN 60204 IEC/EN 60947 CE CSA File No.: 012528 UL File No.: E36332 CSA Class No.: 3211-05 CSA-C22.2 No. 94
<b>CATALOG NOTES</b>	Rated Short-time Withstand Current (Icw) for a time of 1 second



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## Features & Functions

<b>FEATURES</b>	Version as emergency stop installation Version as maintenance- /service switch Version as main switch
<b>FITTED WITH:</b>	Red rotary handle and yellow locking ring
<b>FUNCTIONS</b>	Interlockable Emergency switching off function
<b>LOCKING FACILITY</b>	Lockable in the 0 (Off) position
<b>NUMBER OF POLES</b>	3

## General information

<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>	Rear mounting
<b>MOUNTING POSITION</b>	As required
<b>NUMBER OF CONTACT UNITS</b>	2
<b>OPERATING FREQUENCY</b>	1200 Operations/h
<b>OVERVOLTAGE CATEGORY</b>	III
<b>POLLUTION DEGREE</b>	3
<b>PRODUCT CATEGORY</b>	Main switch
<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>	Branch circuits, suitable as motor disconnect, (UL/CSA) Intermediate mounting Ground mounting
<b>SWITCHING ANGLE</b>	90 °

## Climatic environmental conditions

<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	50 °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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

## Terminal capacities

<b>TERMINAL CAPACITY</b>	1 x (0.75 - 2.5) mm <sup>2</sup> , flexible with ferrules to DIN 46228 18 - 14 AWG, solid or flexible with ferrule 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 1 x (1 - 2.5) mm <sup>2</sup> , solid or stranded
<b>SCREW SIZE</b>	M3.5, Terminal screw
<b>TIGHTENING TORQUE</b>	8.8 lb-in, Screw terminals 1 Nm, Screw terminals

## Electrical rating

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

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

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

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

**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 = 1 MS** 10 A

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

**RATED OPERATIONAL  
CURRENT (IE) AT DC-21,  
240 V** 1 A

**RATED OPERATIONAL** 10 A

## Short-circuit rating

**RATED CONDITIONAL  
SHORT-CIRCUIT CURRENT  
(IQ)** 6 kA

**RATED SHORT-TIME  
WITHSTAND CURRENT  
(ICW)** 0.32 kA  
320 A, Contacts, 1 second

**SHORT-CIRCUIT CURRENT  
RATING (BASIC RATING)** 5 kA, SCCR (UL/CSA)  
50A, max. Fuse, SCCR  
(UL/CSA)

**SHORT-CIRCUIT CURRENT  
RATING (HIGH FAULT)** 10 kA, SCCR (UL/CSA)  
20 A, Class J, max. Fuse,  
SCCR (UL/CSA)

**SHORT-CIRCUIT  
PROTECTION RATING** 20 A gG/gL, Fuse, Contacts

<b>CURRENT (IE) AT DC-23A, 24 V</b>	
<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 POWER STAR-DELTA AT 220/230 V, 50 HZ</b>	5.5 kW
<b>RATED OPERATIONAL POWER STAR-DELTA AT 380/400 V, 50 HZ</b>	7.5 kW

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<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 I <sub>u</sub> is specified for max. cross-section.

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## Switching capacity

<b>LOAD RATING</b>	1.6 x I <sub>e</sub> (with intermittent operation class 12, 40 % duty factor)
	1.3 x I <sub>e</sub> (with intermittent operation class 12, 60 % duty factor)
	2 x I <sub>e</sub> (with intermittent operation class 12, 25 % duty factor)
<b>NUMBER OF CONTACTS IN SERIES AT DC-21A, 240 V</b>	1
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V</b>	1
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V</b>	2
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V</b>	3
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V</b>	3
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 240 V</b>	5
<b>SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)</b>	16 A, Rated uninterrupted current max. (UL/CSA)
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b>	10A, IU, (UL/CSA)
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>	A600 (UL/CSA) P300 (UL/CSA)
<b>RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)</b>	130 A
<b>VOLTAGE PER CONTACT PAIR IN SERIES</b>	60 V

## Motor rating

<b>ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE</b>	0.5 HP
<b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE</b>	1 HP
<b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE</b>	3 HP
<b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE</b>	1.5 HP
<b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE</b>	3 HP
<b>ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE</b>	7.5 HP
<b>ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE</b>	7.5 HP

## Contacts

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

<b>ACTUATOR COLOR</b>	Red
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<b>ACTUATOR TYPE</b>	Door coupling rotary drive
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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** 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.

<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** [eaton-main-switch-declaration-of-conformity-uk251328en.pdf](#)

[eaton-main-switch-declaration-of-conformity-eu250845en.pdf](#)

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

[eaton-rotary-switches-mounting-t0-main-switch-dimensions-006.eps](#)

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

	<a href="#">eaton-rotary-switches-mounting-p1-main-switch-3d-drawing-002.eps</a>
	<a href="#">eaton-general-mounting-p1-main-switch-symbol-002.eps</a>
ECAD MODEL	<a href="#">DA-CE-ETN.T0-2-1 V SVB</a>
INSTALLATION INSTRUCTIONS	<a href="#">IL03801021Z</a>
INSTALLATION VIDEOS	<a href="#">Eaton's P Switch-disconnectors used in a factory</a>
MCAD MODEL	<a href="#">DA-CS-t0_2_v</a> <a href="#">DA-CD-t0_2_v</a>
PRODUCT NOTIFICATIONS	<a href="#">MZ008006ZU_Orderform_Customized_Switch.pdf</a>
	<a href="#">MZ008005ZU_Orderform_Customized_Switch.pdf</a>
WIRING DIAGRAMS	<a href="#">eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram.eps</a>

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**PROJECT NAME:**

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**PROJECT NUMBER:**

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**PREPARED BY:**

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**DATE:**

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