

# Specifications

## Eaton 045476

Eaton Moeller® series TM  
Changeoverswitches, TM, 10 A, centre  
mounting, 1 contact unit(s), Contacts: 2, 90 °,  
maintained, With 0 (Off) position, 1-0-2,  
Design number 8218

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series TM Changeover switch
<b>CATALOG NUMBER</b>	045476
<b>EAN</b>	4015080454762
<b>PRODUCT LENGTH/DEPTH</b>	74 mm
<b>PRODUCT HEIGHT</b>	30 mm
<b>PRODUCT WIDTH</b>	30 mm
<b>PRODUCT WEIGHT</b>	0.034 kg
<b>CERTIFICATIONS</b>	UL Category Control No.: NLRV VDE 0660 CSA-C22.2 No. 14-05 CSA IEC/EN 60947-3 UL UL 508 UL File No.: E36332 CE IEC/EN 60947 IEC/EN 60947-5-1 UL report applies to both US and Canada Certified by UL for use in Canada CSA-C22.2 No. 94
<b>MODEL CODE</b>	TM-1-8218/EZ



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## Features & Functions

<b>ENCLOSURE MATERIAL</b>	Plastic
<b>FITTED WITH:</b>	0 (off) position Black thumb grip and front plate
<b>INSCRIPTION</b>	1-0-2
<b>NUMBER OF POLES</b>	1

## Climatic environmental conditions

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

## General

<b>DEGREE OF PROTECTION</b>	IP65
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP65 NEMA 12
<b>LIFESPAN, MECHANICAL</b>	1,000,000 Operations
<b>MODEL</b>	Reverser
<b>MOUNTING METHOD</b>	Center mounting
<b>MOUNTING POSITION</b>	As required
<b>NUMBER OF CONTACT UNITS</b>	1
<b>OPERATING FREQUENCY</b>	1200 Operations/h
<b>OVERVOLTAGE CATEGORY</b>	III
<b>POLLUTION DEGREE</b>	3
<b>PRODUCT CATEGORY</b>	Control switches
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	4000 V AC
<b>SUITABLE FOR</b>	Front mounting
<b>SWITCHING ANGLE</b>	90 °
<b>TYPE</b>	Changeover switch

## Terminal capacities

<b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>	2 x 1.0 mm <sup>2</sup> , ferrules to DIN 46228 1 x 1.0 mm <sup>2</sup> , ferrules to DIN 46228
<b>TERMINAL CAPACITY (FLEXIBLE)</b>	1 x 1.5 mm <sup>2</sup> 2 x 1.5 mm <sup>2</sup>
<b>TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG)</b>	14
<b>TERMINAL CAPACITY (SOLID/STRANDED)</b>	1 x 1.5 mm <sup>2</sup> 2 x 1,5 mm <sup>2</sup>
<b>SCREW SIZE</b>	M2.5, Terminal screw
<b>TIGHTENING TORQUE</b>	0.4 Nm, Screw terminals 3.5 lb-in, Screw terminals

## Electrical rating

**RATED OPERATIONAL  
CURRENT (IE) AT AC-3,  
380 V, 400 V, 415 V** 0 A

**RATED OPERATIONAL  
POWER AT AC-3, 380/400  
V, 50 HZ** 1.1 kW

**RATED OPERATIONAL  
POWER AT AC-23A, 400 V,  
50 HZ** 3 kW

**RATED OPERATIONAL  
VOLTAGE (UE) AT AC -  
MAX** 500 V

**RATED UNINTERRUPTED  
CURRENT (IU)** 10 A

**UNINTERRUPTED  
CURRENT** Rated uninterrupted  
current I<sub>u</sub> is specified for  
max. cross-section.

## Switching capacity

**SWITCHING CAPACITY  
(MAIN CONTACTS,  
GENERAL USE)** 10 A, Rated uninterrupted  
current max. (UL/CSA)

**SWITCHING CAPACITY  
(AUXILIARY CONTACTS,  
GENERAL USE)** 10A, IU, (UL/CSA)

**SWITCHING CAPACITY  
(AUXILIARY CONTACTS,  
PILOT DUTY)** A300 (UL/CSA)

## Short-circuit rating

**SHORT-CIRCUIT  
PROTECTION RATING** 10 A gG/gL, Fuse, Contacts

## Motor rating

**ASSIGNED MOTOR  
POWER AT 115/120 V, 60  
HZ, 1-PHASE** 0.33 HP

**ASSIGNED MOTOR  
POWER AT 115/120 V, 60  
HZ, 3-PHASE** 0.75 HP

**ASSIGNED MOTOR  
POWER AT 230/240 V, 60  
HZ, 1-PHASE** 0.75 HP

**ASSIGNED MOTOR  
POWER AT 230/240 V, 60  
HZ, 3-PHASE** 1 HP

**ASSIGNED MOTOR  
POWER AT 277 V, 60 HZ,  
1-PHASE** 0.75 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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<b>NUMBER OF CONTACTS</b>	2
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## Actuator

<b>ACTUATOR FUNCTION</b>	With 0 (Off) position Maintained
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<b>ACTUATOR TYPE</b>	Short thumb-grip
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## Design verification

<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	0 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	0.15 W
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	10 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	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-00004922.pdf](#) [DA-DC-00004893.pdf](#)

### DRAWINGS

[eaton-rotary-switches-mounting-tm-step-switch-dimensions-011.eps](#)

[eaton-rotary-switches-mounting-tm-step-switch-dimensions-002.eps](#)

[eaton-rotary-switches-mounting-tm-step-switch-dimensions-017.eps](#)

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

[eaton-general-rotary-switch-t0-step-switch-symbol-004.eps](#)

[eaton-rotary-switches-front-plate-tm-changeover-switch-symbol-003.eps](#)

**ECAD MODEL** [DA-CE-ETN.TM-1-8218\\_EZ](#)

**INSTALLATION INSTRUCTIONS** [IL03801025Z](#)

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

**MCAD MODEL** [DA-CS-tm1\\_ez](#) [DA-CD-tm1\\_ez](#)

**PRODUCT NOTIFICATIONS** [MZ008006ZU\\_Orderform\\_Customized\\_Switch.pdf](#)

[MZ008005ZU\\_Orderform\\_Customized\\_Switch.pdf](#)

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**



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