

# Specifications

Photo is representative

## Eaton 034102

Eaton Moeller® series T0  
Changeoverswitches, T0, 20 A, centre  
mounting, 8 contact unit(s), Contacts: 16, 90  
°, maintained, Without 0 (Off) position, 1-2,  
Design number 8372

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series T0 Changeover switch
<b>CATALOG NUMBER</b>	034102
<b>EAN</b>	4015080341024
<b>PRODUCT LENGTH/DEPTH</b>	163 mm
<b>PRODUCT HEIGHT</b>	48 mm
<b>PRODUCT WIDTH</b>	48 mm
<b>PRODUCT WEIGHT</b>	0.288 kg
<b>CERTIFICATIONS</b>	CSA File No.: 012528 IEC/EN 60947 UL File No.: E36332 CSA Class No.: 3211-05 IEC/EN 60947-3 UL Category Control No.: NLRV UL 60947-4-1 CE CSA UL CSA-C22.2 No. 60947-4-1- 14 CSA-C22.2 No. 94 VDE 0660 IEC/EN 60204
<b>CATALOG NOTES</b>	Rated Short-time Withstand Current (Icw) for a time of 1 second
<b>MODEL CODE</b>	T0-8-8372/EZ

## Features & Functions

<b>ENCLOSURE MATERIAL</b>	Plastic
<b>FITTED WITH:</b>	Black thumb grip and front plate
<b>INSCRIPTION</b>	1-2
<b>NUMBER OF POLES</b>	8

## General

<b>DEGREE OF PROTECTION</b>	NEMA 1 IP65 NEMA 12
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP65 NEMA 12
<b>LIFESPAN, MECHANICAL</b>	400,000 Operations
<b>MODEL</b>	Reverser
<b>MOUNTING METHOD</b>	Center mounting
<b>MOUNTING POSITION</b>	As required
<b>NUMBER OF CONTACT UNITS</b>	8
<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>	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) Front mounting
<b>SWITCHING ANGLE</b>	90 °
<b>TYPE</b>	Changeover switch

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

## Terminal capacities

<b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>	1 x (0.75 - 2.5) mm <sup>2</sup> , ferrules to DIN 46228 2 x (0.75 - 2.5) mm <sup>2</sup> , ferrules to DIN 46228
<b>TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG)</b>	18 - 14
<b>TERMINAL CAPACITY (SOLID/STRANDED)</b>	2 x (1 - 2.5) mm <sup>2</sup> 1 x (1 - 2.5) mm <sup>2</sup>
<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** 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 (COS PHI TO IEC 60947-3)** 60 A

20 A at AC-3, 400 V star-delta

20 A at AC-3, 230 V star-delta

8.5 A at AC-3, 690 V star-delta

15.6 A at AC-3, 500 V star-delta

### RATED OPERATIONAL CURRENT (IE)

20 A at AC-3, 400 V star-delta

### 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,

10 A

## Short-circuit rating

### RATED CONDITIONAL

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

### RATED SHORT-TIME

**WITHSTAND CURRENT (ICW)** 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)** 20 A, Class J, max. Fuse,  
SCCR (UL/CSA)  
10 kA, SCCR (UL/CSA)

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

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**LOAD-BREAK SWITCHES**

**L/R = 1 MS**

**RATED OPERATIONAL**

**CURRENT (IE) AT DC-13,**

**CONTROL SWITCHES L/R**

**= 50 MS**

**10 A**

**RATED OPERATIONAL**

**CURRENT (IE) AT DC-21,**

**1 A**

**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**

**POWER AT AC-3, 380/400**

**4 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 STAR-DELTA AT**

**5.5 kW**

**220/230 V, 50 Hz**

**RATED OPERATIONAL**

**POWER STAR-DELTA AT**

**7.5 kW**

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**380/400 V, 50 HZ**

**RATED OPERATIONAL  
POWER STAR-DELTA AT  
500 V, 50 HZ**

7.5 kW

**RATED OPERATIONAL  
POWER STAR-DELTA AT  
690 V, 50 HZ**

5.5 kW

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

690 V

**RATED UNINTERRUPTED  
CURRENT (IU)**

20 A

**UNINTERRUPTED  
CURRENT**

Rated uninterrupted  
current lu is specified for  
max. cross-section.

## Switching capacity

LOAD RATING	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)
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
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	16 A, Rated uninterrupted current max. (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, IU, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P300 (UL/CSA) A600 (UL/CSA)
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	130 A
VOLTAGE PER CONTACT PAIR IN SERIES	60 V

## Motor rating

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

## 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)** 0

**NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)** 0

**NUMBER OF CONTACTS** 16

## Actuator

**ACTUATOR FUNCTION** Without 0 (Off) position  
Maintained

**ACTUATOR TYPE** Short thumb-grip

## Design verification

### EQUIPMENT HEAT

DISSIPATION, CURRENT- 0 W

### DEPENDENT PVID

HEAT DISSIPATION 0 W  
CAPACITY PDISS

HEAT DISSIPATION PER  
POLE, CURRENT- 0.6 W  
DEPENDENT PVID

RATED OPERATIONAL  
CURRENT FOR SPECIFIED 20 A  
HEAT DISSIPATION (IN)

STATIC HEAT  
DISSIPATION, NON- 0 W  
CURRENT-DEPENDENT  
PVS

**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.

<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-00004927.pdf](#) [DA-DC-00004895.pdf](#)

**DRAWINGS** [eaton-rotary-switches-mounting-t0-step-switch-dimensions-016.eps](#)

<a href="#">eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-014.eps</a>
<a href="#">eaton-rotary-switches-mounting-t0-changeover-switch-3d-drawing-003.eps</a>
<a href="#">eaton-general-rotary-switch-t0-step-switch-symbol-004.eps</a>
<b>ECAD MODEL</b> <a href="#">eaton-t0-changeover-switch-eplan-034102.edz</a>
<b>INSTALLATION INSTRUCTIONS</b> <a href="#">IL03801020Z</a>
<b>INSTALLATION VIDEOS</b> <a href="#">Eaton's P Switch-disconnectors used in a factory</a>
<b>MCAD MODEL</b> <a href="#">DA-CS-t0_8_ez DA-CD-t0_8_ez</a>
<b>PRODUCT NOTIFICATIONS</b> <a href="#">MZ008006ZU_Orderform_Customized_Switch.pdf</a> <a href="#">MZ008005ZU_Orderform_Customized_Switch.pdf</a>
<b>WIRING DIAGRAMS</b> <a href="#">eaton-rotary-switches-contact-t0-changeover-switch-wiring-diagram-008.eps</a>

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**



**Eaton Corporation plc**

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

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