

# Specifications

## Eaton 036473

Eaton Moeller® series T0  
Changeoverswitches, T0, 20 A, rear  
mounting, 3 contact unit(s), Contacts: 6, 60 °,  
maintained, With 0 (Off) position, 1-0-2,  
Design number 8212

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series T0 Changeover switch
<b>CATALOG NUMBER</b>	036473
<b>EAN</b>	4015080364733
<b>PRODUCT LENGTH/DEPTH</b>	137 mm
<b>PRODUCT HEIGHT</b>	48 mm
<b>PRODUCT WIDTH</b>	48 mm
<b>PRODUCT WEIGHT</b>	0.163 kg
<b>CERTIFICATIONS</b>	CSA File No.: 012528 CSA-C22.2 No. 60947-4-1- 14 IEC/EN 60204 CSA CSA Class No.: 3211-05 IEC/EN 60947 UL 60947-4-1 CE IEC/EN 60947-3 UL Category Control No.: NLRV VDE 0660 CSA-C22.2 No. 94 UL UL File No.: E36332
<b>CATALOG NOTES</b>	Rated Short-time Withstand Current (Icw) for a time of 1 second
<b>MODEL CODE</b>	T0-3-8212/Z

## Features & Functions

<b>ENCLOSURE MATERIAL</b>	Plastic
<b>FITTED WITH:</b>	Black thumb grip and front plate 0 (off) position
<b>INSCRIPTION</b>	1-0-2
<b>NUMBER OF POLES</b>	3

## General

<b>DEGREE OF PROTECTION</b>	IP65 NEMA 1 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>	Rear mounting
<b>MOUNTING POSITION</b>	As required
<b>NUMBER OF CONTACT UNITS</b>	3
<b>OPERATING FREQUENCY</b>	1200 Operations/h
<b>OVERTVOLTAGE 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>	Ground mounting Intermediate mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting
<b>SWITCHING ANGLE</b>	60 °
<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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

## 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>	1 x (1 - 2.5) mm <sup>2</sup> 2 x (1 - 2.5) mm <sup>2</sup>
<b>SCREW SIZE</b>	M3.5, Terminal screw
<b>TIGHTENING TORQUE</b>	1 Nm, Screw terminals 8.8 lb-in, 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, 230 V star-delta

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

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

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

### RATED OPERATIONAL CURRENT (IE)

11.5 A at AC-3, 230 V, 240 V

### 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

2 x I<sub>e</sub> (with intermittent operation class 12, 25 % duty factor)

## 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)

## NUMBER OF CONTACTS

IN SERIES AT DC-21A, 240

1

V

## 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

3

V

## NUMBER OF CONTACTS

IN SERIES AT DC-23A, 240

5

V

## 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** 6

## Actuator

**ACTUATOR FUNCTION** Maintained With 0 (Off) position

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

**DRAWINGS** [eaton-rotary-switches-mounting-t0-step-switch-dimensions-020.eps](#)

[eaton-general-rotary-switch-t0-step-switch-symbol-003.eps](#)  
[eaton-rotary-switches-mounting-t0-changeover-switch-3d-drawing-004.eps](#)  
[eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-009.eps](#)

**ECAD MODEL** [DA-CE-ETN.T0-3-8212\\_Z](#)

**INSTALLATION INSTRUCTIONS** [IL03801021Z](#)

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

**MCAD MODEL** [DA-CS-t0\\_3\\_z DA-CD-t0\\_3\\_z](#)

**PRODUCT NOTIFICATIONS** [MZ008005ZU\\_Orderform\\_Customized\\_Switch.pdf](#)  
[MZ008006ZU\\_Orderform\\_Customized\\_Switch.pdf](#)

**WIRING DIAGRAMS** [eaton-rotary-switches-changeover-switch-t0-changeover-switch-wiring-diagram-003.eps](#)

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**



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