

# Eaton 222466

Catalog Number: 222466

Eaton Moeller® series T0 ON-OFF switches, T0, 20 A, surface mounting, 3 contact unit(s), Contacts: 5, 90 °, maintained, 0-1, Design number 15475

## General specifications

Product Name	Catalog Number
Eaton Moeller® series T0 On-off switch	222466
EAN	Product Length/Depth
4015082224660	119 mm
Product Height	Product Width
100 mm	80 mm
Product Weight	Certifications
0.288 kg	IEC 60947
	EN 60947
	EN 60204
	VDE
	IEC/EN 60947
	IEC/EN 60947-3
	VDE 0660
	IEC/EN 60204

## Catalog Notes

Rated Short-time Withstand Current  
(Icw) for a time of 1 second

## Product specifications

### Type

ON-OFF switch

### Features

Complete device in housing

### Actuator function

Maintained

### 10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

### 10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

### 10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

### 10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

### 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

## Resources

### Brochures

Brochure - T Rotary Cam switch and P Switch-disconnector

### Catalogs

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-t0-changeover-switch-dimensions-002.eps

eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-002.eps

eaton-general-totally-insulated-t0-main-switch-symbol.eps

eaton-general-rotary-switch-t0-step-switch-symbol.eps

### eCAD model

ETN.T0-3-15475\_I1

### Installation instructions

IL03801007Z2021\_06.pdf

### Installation videos

Eaton's P Switch-disconnectors used in a factory

### mCAD model

DA-CS-bauform4

DA-CD-bauform4

### Product notifications

MZ008005ZU\_Orderform\_Customized\_Switch.pdf

MZ008006ZU\_Orderform\_Customized\_Switch.pdf

### Wiring diagrams

eaton-rotary-switches-t0-on-off-switch-wiring-diagram-064.eps

eaton-rotary-switches-t0-on-off-switch-wiring-diagram-063.eps

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.

#### 10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

#### 10.8 Connections for external conductors

Is the panel builder's responsibility.

#### 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

#### 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

#### 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

#### Fitted with:

0 (off) position

Black thumb grip and front plate

#### Operating frequency

1200 Operations/h

#### Pollution degree

3

#### Climatic proofing

Damp heat, cyclic, to IEC 60068-2-30

Damp heat, constant, to IEC 60068-2-78

#### Rated impulse withstand voltage (U<sub>imp</sub>)

6000 V AC

#### Rated uninterrupted current (I<sub>u</sub>)

20 A

#### Static heat dissipation, non-current-dependent P<sub>vs</sub>

0 W

Switching angle

90 °

Voltage per contact pair in series

60 V

Width in number of modular spacings

0

Product category

Control switches

Number of poles

Five-pole

Rated operational power at AC-3, 500 V, 50 Hz

5.5 kW

Device construction

Surface mounted device

Switch type

On/Off switch

Rated short-time withstand current (Icw)

320 A, Contacts, 1 second

Actuator type

Toggle

Ambient operating temperature - max

40 °C

Ambient operating temperature - min

-25 °C

Ambient operating temperature (enclosed) - max

40 °C

Ambient operating temperature (enclosed) - min

-25 °C

Equipment heat dissipation, current-dependent Pvid

0 W

Mounting position

As required

Mounting method

Surface mounting

Rated conditional short-circuit current (Iq)

6 kA

Degree of protection

IP65

Overvoltage category

III

Control circuit reliability

1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)

Degree of protection (front side)

IP65

NEMA 12

Number of contacts

5

Suitable for

Ground mounting

Heat dissipation capacity  $P_{diss}$

0 W

Heat dissipation per pole, current-dependent  $P_{vid}$

0.6 W

Number of contact units

3

Number of contacts in series at DC-21A, 240 V

1

Number of contacts in series at DC-23A, 120 V

3

Number of contacts in series at DC-23A, 24 V

1

Number of contacts in series at DC-23A, 240 V

5

Front shield size

48x48 mm

Safe isolation

440 V AC, Between the contacts, According to EN 61140

Screw size

M3.5, Terminal screw

Inscription

0-1

Shock resistance

15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms

Lifespan, mechanical

400,000 Operations

Number of switch positions

2

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-23A, 48 V

2

Number of contacts in series at DC-23A, 60 V

3

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 making capacity up to 690 V (cos phi to IEC/EN 60947-3)

130 A

Rated operating voltage (U<sub>e</sub>) at AC - max

690 V

Rated operational current (I<sub>e</sub>) at AC-21, 440 V

20 A

Rated operational current (I<sub>e</sub>) at AC-23A, 230 V

13.3 A

Rated operational current (I<sub>e</sub>) at AC-23A, 400 V, 415 V

13.3 A

Rated operational current (I<sub>e</sub>) at AC-23A, 500 V

13.3 A

Rated operational current (I<sub>e</sub>) at AC-23A, 690 V

7.6 A

Rated operational current (I<sub>e</sub>) 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 DC-1, load-break switches I/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

Safety parameter (EN ISO 13849-1)

B10d values as per EN ISO 13849-1, table C.1

Rated operational current (Ie) at DC-23A, 120 V

5 A

Rated operational current (Ie) at DC-23A, 24 V

10 A

Rated operational current (Ie) at DC-23A, 240 V

5 A

Rated operational current (Ie) at DC-23A, 48 V

10 A

Rated operational current (Ie) at DC-23A, 60 V

10 A

Rated operational current (Ie) star-delta at AC-3, 230 V

20 A

Rated operational current (Ie) star-delta at AC-3, 400 V

20 A

Rated operational current (Ie) star-delta at AC-3, 500 V

15.6 A

Rated operational current (Ie) star-delta at AC-3, 690 V

8.5 A

Rated operational current for specified heat dissipation (In)

20 A

Rated operational power at AC-23A, 220/230 V, 50 Hz

3 kW

Rated operational power at AC-23A, 400 V, 50 Hz

5.5 kW

Rated operational power at AC-23A, 500 V, 50 Hz

7.5 kW

Rated operational power at AC-23A, 690 V, 50 Hz

5.5 kW

Rated operational power at AC-3, 415 V, 50 Hz

5.5 kW

Rated operational power at AC-3, 690 V, 50 Hz

4 kW

Rated operational power star-delta at 220/230 V, 50 Hz

5.5 kW

Rated operational power star-delta at 380/400 V, 50 Hz

7.5 kW

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

Terminal capacity (flexible with ferrule)

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

Short-circuit protection rating

20 A gG/gL, Fuse, Contacts

Terminal capacity (solid/stranded)

1 x (1 - 2.5) mm<sup>2</sup>

2 x (1 - 2.5) mm<sup>2</sup>

Tightening torque

1 Nm, Screw terminals

Uninterrupted current

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

Design

15475





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