Specifications

# Eaton 207061

## Catalog Number: 207061

Eaton Moeller® series T0 On-Off switch, T0, 20 A, surface mounting, 1 contact unit(s), 2 pole, with black thumb grip and front plate

### General specifications

**Product Name**
Eaton Moeller® series T0 On-off switch

**Catalog Number**
207061

**EAN**
4015082070618

**Product Length/Depth**
137 mm

**Product Height**
102 mm

**Product Width**
80 mm

**Product Weight**
0.253 kg

**Certifications**
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

### Product Category

On-Off switch

### Actuator color

Black

### 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-00004927.pdf

DA-DC-00004895.pdf

### Drawings

eaton-rotary-switches-dimensions-t0-step-switch-dimensions.eps

eaton-rotary-switches-t0-changeover-switch-dimensions.eps

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

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

eaton-rotary-switches-surface-mounting-t0-changeover-switch-3d-drawing.eps

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

### eCAD model

ETN.T0-1-102_I1

### Installation instructions

IL03801007Z2021_06.pdf

### Installation videos

Eaton's P Switch-disconnectors used in a factory

### mCAD model

DA-CS-bauform2

DA-CD-bauform2

### Product notifications

MZ008006ZU_Orderform_Customized_Switch.pdf

MZ008005ZU_Orderform_Customized_Switch.pdf

### Wiring diagrams

eaton-rotary-switches-on-off-switch-t0-on-off-switch-wiring-diagram-002.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:

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 (Uimp)

6000 V AC

### 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 permanent current at AC-21, 400 V

20 A

Rated permanent current at AC-23, 400 V

13.3 A

Rated uninterrupted current (Iu)

20 A

Static heat dissipation, non-current-dependent Pvs

0 W

Switching angle

90 °

Switching power at 400 V

5.5 kW

Voltage per contact pair in series

60 V

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

5.5 kW

Device construction

Complete device in housing

Rated short-time withstand current (Icw)

0.32 kA

320 A, Contacts, 1 second

Electrical connection type of main circuit

Screw connection

Design

102

Mounting position

As required

Actuator type

Short thumb-grip

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

0.6 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0.6 W

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

0

Rated conditional short-circuit current (Iq)

6 kA

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

Number of poles

2

Mounting method

Surface mounting

Degree of protection

NEMA 12

Suitable for

Ground mounting

Number of switches

1

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

### Load rating

1.6 x $I_e$ (with intermittent operation class 12, 40 % duty factor)
2 x $I_e$ (with intermittent operation class 12, 25 % duty factor)
1.3 x $I_e$ (with intermittent operation class 12, 60 % duty factor)

### Terminal capacity

2 x (1 - 2.5) mm², solid or stranded
2 x (0.75 - 2.5) mm², flexible with ferrules to DIN 46228
1 x (0.75 - 2.5) mm², flexible with ferrules to DIN 46228
1 x (1 - 2.5) mm², solid or stranded

### Safety parameter (EN ISO 13849-1)

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

### Number of auxiliary contacts (normally open contacts)

0

### Number of contact units

1

### 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

### 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 (Ue) - max

690 V

Rated operating voltage (Ue) - min

690 V

Rated operational voltage (Ue) at AC - max

690 V

Short-circuit protection rating

20 A gG/gL, Fuse, Contacts

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 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 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 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, 220/230 V

20 A

Rated operational current (Ie) star-delta at AC-3, 380/400 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, 380/400 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

Tightening torque

8.8 lb-in, Screw terminals

1 Nm, Screw terminals

### Uninterrupted current

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

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

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