Specifications

# Eaton 197425

## Catalog Number: 197425

Eaton Moeller® series T0 Cam switch T0, shape SE/SVB T0-3-8901/SE1/SVB-SW

### General specifications

**Product Name**
Eaton Moeller® series T0 Main switch

**Catalog Number**
197425

**EAN**
4015080896401

**Product Length/Depth**
200 mm

**Product Height**
135 mm

**Product Width**
150 mm

**Product Weight**
1.62 kg

**Certifications**
VDE 0660
IEC/EN 60947-3
IEC/EN 60204
IEC/EN 60947

## Features & Functions

Fitted with:

Black rotary handle and locking ring

Functions

STOP function

Locking facility

Lockable in the 0 (Off) position

Number of poles

Three-pole

## General

Degree of protection

NEMA 12

Degree of protection (front side)

IP65

Lifespan, mechanical

400,000 Operations

Mounting method

Surface mounting

Mounting position

As required

Number of contact units

3

Operating frequency

1200 Operations/h

Overvoltage category

III

Pollution degree

3

Product Category

Main switch

Product Category

Main switch

Rated impulse withstand voltage (Uimp)

6000 V AC

Safe isolation

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

Safety parameter (EN ISO 13849-1)

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

Shock resistance

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

Switching angle

90 °

## Climatic environmental conditions

## Terminal capacities

Ambient operating temperature (enclosed) - min

-25 °C

Ambient operating temperature (enclosed) - max

40 °C

Climatic proofing

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

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

Terminal capacity

1 x (0.75 - 2.5) mm², flexible with ferrules to DIN 46228

2 x (1 - 2.5) mm², solid or stranded

1 x (1 - 2.5) mm², solid or stranded

Screw size

M3.5, Terminal screw

Tightening torque

1 Nm, Screw terminals

## Electrical rating

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 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-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

## Short-circuit rating

Rated conditional short-circuit current (Iq)

6 kA

Rated short-time withstand current (Icw)

320 A, Contacts, 1 second

0.32 kA

Short-circuit protection rating

20 A gG/gL, Fuse, Contacts

## Switching capacity

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

130 A

Load rating

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

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

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

## Contacts

Control circuit reliability

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

Number of auxiliary contacts (normally closed contacts)

1

Number of auxiliary contacts (normally open contacts)

1

Voltage per contact pair in series

60 V

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

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

1

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

5 A

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

3

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

10 A

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

1

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

10 A

Number of contacts in series at DC-23A, 48 V

2

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

5 A

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

5

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

10 A

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

3

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

## Actuator

Actuator color

Black

Actuator type

Door coupling rotary drive

## Design verification

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.

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

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

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 Iu is specified for max. cross-section.

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.

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.

## Resources

Brochures

Steel enclosure brochure

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-p1-main-switch-dimensions-004.eps

eaton-rotary-switches-t0-main-switch-symbol.eps

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

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

### Installation instructions

IL008054ZU

### Installation videos

Eaton Bussmann Switch Disconnect

### Wiring diagrams

eaton-rotary-switches-switch-t0-main-switch-wiring-diagram-004.eps

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