Specifications

# Eaton 222855

## Catalog Number: 222855

Eaton Moeller® series T3 step switch for heating, T3, 32 A, surface mounting, 2 contact unit(s), Contacts: 4, 60 °, maintained, With 0 (Off) position, 0-3, Design number 95

### General specifications

**Product Name**
Eaton Moeller® series T3 Step switch

**Catalog Number**
222855

**EAN**
4015082228552

**Product Length/Depth**
181 mm

**Product Height**
107 mm

**Product Width**
100 mm

**Product Weight**
0.364 kg

**Certifications**
UL Category Control No.: NLRV
IEC/EN 60947-3
UL 60947-4-1
UL
IEC/EN 60204
CSA-C22.2 No. 94
IEC/EN 60947
VDE 0660
UL File No.: E36332
CSA Class No.: 3211-07
CE
CSA File No.: 012528
CSA
CSA-C22.2 No. 60947-4-1-14

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

## Product specifications

### Type

Step switch for heating

### Features

Complete device in housing

### Actuator function

Maintained

With 0 (Off) position

### 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.

## 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-00004894.pdf

DA-DC-00004923.pdf

### Drawings

eaton-rotary-switches-dimensions-t3-main-switch-dimensions.eps

eaton-rotary-switches-t3-changeover-switch-dimensions.eps

eaton-rotary-switches-front-plate-t0-step-switch-symbol-022.eps

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

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

### eCAD model

ETN.222855.edz

### Installation instructions

IL03801008Z2021_06.pdf

### Installation videos

Eaton's P Switch-disconnectors used in a factory

### mCAD model

DA-CS-bauform6

DA-CD-bauform6

### Product notifications

MZ008006ZU_Orderform_Customized_Switch.pdf

MZ008005ZU_Orderform_Customized_Switch.pdf

### Wiring diagrams

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

eaton-rotary-switches-t0-step-switch-wiring-diagram-003.eps

### 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.

### 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
0 (off) position

### Operating frequency

1200 Operations/h

### Pollution degree

3

### Climatic proofing

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

### Rated impulse withstand voltage (Uimp)

6000 V AC

### Rated uninterrupted current (Iu)

32 A

### Static heat dissipation, non-current-dependent Pvs

0 W

Switching angle

60 °

Voltage per contact pair in series

24 V

Width in number of modular spacings

0

Product category

Control switches

Number of poles

Single-pole

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

15 kW

Device construction

Surface mounted device

Switch type

Level switch

Rated short-time withstand current (Icw)

650 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

Assigned motor power at 115/120 V, 60 Hz, 1-phase

1.5 HP

Assigned motor power at 200/208 V, 60 Hz, 1-phase

3 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

3 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

10 HP

Equipment heat dissipation, current-dependent Pvid

0 W

Mounting position

As required

Mounting method

Surface mounting

Rated conditional short-circuit current (Iq)

1 kA

Degree of protection

NEMA 1

IP65

NEMA 12

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

4

Suitable for

Ground mounting

Branch circuits, suitable as motor disconnect, (UL/CSA)

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

1.1 W

Number of contact units

2

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

M4, Terminal screw

Inscription

0-3

Shock resistance

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

Lifespan, mechanical

500,000 Operations

Number of switch positions

4

Load rating

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

Switching capacity (auxiliary contacts, general use)

10A, IU, (UL/CSA)

Switching capacity (auxiliary contacts, pilot duty)

A600 (UL/CSA)

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)

260 A

Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)

260 A

Rated breaking capacity at 500 V (cos phi to IEC 60947-3)

240 A

Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)

170 A

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

320 A

Rated operating voltage (Ue) at AC - max

690 V

Rated operational current (Ie) at AC-21, 440 V

32 A

Rated operational current (Ie) at AC-23A, 230 V

32 A

Rated operational current (Ie) at AC-23A, 400 V, 415 V

32 A

Rated operational current (Ie) at AC-23A, 500 V

26.4 A

Rated operational current (Ie) at AC-23A, 690 V

17 A

Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V

23.7 A

Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V

23.7 A

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

23.7 A

Rated operational current (Ie) at AC-3, 660 V, 690 V

14.7 A

Rated operational current (Ie) at DC-1, load-break switches l/r = 1 ms

25 A

Rated operational current (Ie) at DC-13, control switches L/R = 50 ms

20 A

Rated operational current (Ie) at DC-21, 240 V

1 A

Switching capacity (main contacts, general use)

25 A, Rated uninterrupted current max. (UL/CSA)

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

12 A

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

25 A

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

5 A

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

25 A

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

25 A

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

32 A

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

32 A

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

32 A

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

25.5 A

Rated operational current for specified heat dissipation (In)

32 A

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

7.5 kW

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

15 kW

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

15 kW

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

15 kW

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

11 kW

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

11 kW

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

7.5 kW

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

15 kW

### Rated operational power star-delta at 500 V, 50 Hz

18.5 kW

### Rated operational power star-delta at 690 V, 50 Hz

22 kW

### Terminal capacity (flexible with ferrule)

2 x (0.75 - 4) mm², ferrules to DIN 46228

1 x (0.75 - 4) mm², ferrules to DIN 46228

### Short-circuit current rating (basic rating)

5 kA, SCCR (UL/CSA)

40A, max. Fuse, SCCR (UL/CSA)

### Short-circuit current rating (high fault)

40 A, Class J, max. Fuse, SCCR (UL/CSA)

10 kA, SCCR (UL/CSA)

### Short-circuit protection rating

35 A gG/gL, Fuse, Contacts

### Terminal capacity (solid/flexible with ferrule AWG)

14 - 10

### Terminal capacity (solid/stranded)

2 x (1 - 6) mm²

1 x (1 - 6) mm²

### Tightening torque

1.6 Nm, Screw terminals

17.7 lb-in, Screw terminals

### Uninterrupted current

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

### Design

95

### Rated Switching Capacity

1.5 HP at 120 V AC, single-phase

10 HP at 600 V AC, three-phase

3 HP at 200 V AC, single-phase

3 HP at 200 V AC, three-phase

3 HP at 240 V AC, single-phase

3 HP at 240 V AC, three-phase

7.5 HP at 480 V AC, three-phase




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