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 Catalog Number

Eaton Moeller® series T3 Step switch 222855

EAN Product Length/Depth

4015082228552 181 mm

Product Height Product Width

107 mm 100 mm

Product Weight Certifications

0.364 kg 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

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0 W
Switching angle
60°
Voltage per contact pair in series
24 V
Width in number of modular spacings
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
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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 Ш 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 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 Number of contacts in series at DC-23A, 240 V 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, Halfsinusoidal 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) $1.3 \times I_e$ (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

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 (le) at AC-21, 440 V 32 A Rated operational current (le) at AC-23A, 230 V 32 A Rated operational current (le) at AC-23A, 400 V, 415 V 32 A Rated operational current (le) at AC-23A, 500 V 26.4 A Rated operational current (le) at AC-23A, 690 V 17 A Rated operational current (le) at AC-3, 220 V, 230 V, 240 V 23.7 A Rated operational current (le) at AC-3, 380 V, 400 V, 415 V 23.7 A Rated operational current (le) at AC-3, 500 V 23.7 A Rated operational current (le) at AC-3, 660 V, 690 V 14.7 A Rated operational current (le) at DC-1, load-break switches I/r = 1 ms 25 A Rated operational current (le) at DC-13, control switches L/R = 50 ms 20 A Rated operational current (le) 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 (le) at DC-23A, 120 V 12 A Rated operational current (le) at DC-23A, 24 V 25 A Rated operational current (le) at DC-23A, 240 V 5 A Rated operational current (le) at DC-23A, 48 V 25 A Rated operational current (Ie) at DC-23A, 60 V 25 A Rated operational current (le) star-delta at AC-3, 230 V 32 A Rated operational current (le) star-delta at AC-3, 400 V 32 A Rated operational current (le) star-delta at AC-3, 500 V 32 A Rated operational current (le) 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 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

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

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

11 kW

7.5 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 terminals17.7 lb-in, Screw terminals

Uninterrupted current

Rated uninterrupted current lu is specified for max. crosssection.

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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