Specifications

Eaton 030267

Catalog Number: 030267

Eaton Moeller® series TM Step switches, TM, 10 A, centre mounting, Contacts: 4, with black thumb grip and front plate TM-2-8231/EZ-SW



General specifications

Product Name
Eaton Moeller® series TM Step switch

Catalog Number
030267

EAN
4015080302674

Product Length/Depth
87 mm

Product Height
30 mm

Product Width
30 mm

Product Weight
0.044 kg

Certifications
UL File No.: E36332
CE
CSA-C22.2 No. 94
IEC/EN 60947-5-1
Certified by UL for use in Canada
CSA-C22.2 No. 14-05
UL 508
UL
UL Category Control No.: NLRV
CSA
IEC/EN 60947
IEC/EN 60947-3
VDE 0660
UL report applies to both US and Canada

Powering Business Worldwide

Product specifications

Type

Step switch

Actuator function

Maintained

Without 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.

10.2.7 Inscriptions

Meets the product standard's requirements.

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-00004922.pdf

DA-DC-00004893.pdf

Drawings

eaton-rotary-switches-mounting-tm-step-switch-dimensions-018.eps

eaton-rotary-switches-mounting-tm-step-switch-dimensions-012.eps

eaton-rotary-switches-mounting-tm-step-switch-dimensions-002.eps

eaton-rotary-switches-front-plate-tm-step-switch-symbol-002.eps

eaton-general-rotary-switch-t0-step-switch-symbol-004.eps

eCAD model

DA-CE-ETN.TM-2-8231_EZ-SW

Installation instructions

IL03801026Z

Installation videos

Eaton's P Switch-disconnectors used in a factory

mCAD model

DA-CD-tm2_ez

DA-CS-tm2_ez

Product notifications

MZ008006ZU_Orderform_Customized_Switch.pdf

MZ008005ZU_Orderform_Customized_Switch.pdf

Wiring diagrams

eaton-rotary-switches-switch-t0-step-switch-wiring-diagram-008.eps

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)

4000 V AC

Rated uninterrupted current (Iu)

10 A

Static heat dissipation, non-current-dependent Pvs

0 W

Switching angle

60 °

Width in number of modular spacings

0

Product category

Control switches

Number of poles

Single-pole

Device construction

Built-in device

Switch type

Level switch

Actuator type

Toggle

Ambient operating temperature - max

50 °C

Ambient operating temperature - min

-25 °C

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

0.33 HP

Assigned motor power at 115/120 V, 60 Hz, 3-phase

0.75 HP

Assigned motor power at 230/240 V, 60 Hz, 1-phase

0.75 HP

Assigned motor power at 230/240 V, 60 Hz, 3-phase

1 HP

Assigned motor power at 277 V, 60 Hz, 1-phase

0.75 HP

Equipment heat dissipation, current-dependent Pvid

0 W

Mounting position

As required

Mounting method

Center mounting

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

4

Suitable for

Front mounting

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0.15 W

Number of contact units

2

Front shield size

30x30 mm

Screw size

M2.5, Terminal screw

Inscription

1-4

Number of steps

4 (60°)

Lifespan, mechanical

1,000,000 Operations

Number of switch positions

4

Switching capacity (auxiliary contacts, general use)

10A, IU, (UL/CSA)

Switching capacity (auxiliary contacts, pilot duty)

A300 (UL/CSA)

Rated operating voltage (Ue) at AC - max

500 V

Switching capacity (main contacts, general use)

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

Rated operational current for specified heat dissipation (In)

10 A

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

3 kW

Terminal capacity (flexible with ferrule)

2 x 1.0 mm², ferrules to DIN 46228

1 x 1.0 mm², ferrules to DIN 46228

Terminal capacity (flexible)

2 x 1.5 mm²

1 x 1.5 mm²

Short-circuit protection rating

10 A gG/gL, Fuse, Contacts

Terminal capacity (solid/flexible with ferrule AWG)

14

Terminal capacity (solid/stranded)

1 x 1.5 mm²

2 x 1,5 mm²

Tightening torque

3.5 lb-in, Screw terminals

0.4 Nm, Screw terminals

Uninterrupted current

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

Design

8231

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