Specifications

Eaton 030452

Catalog Number: 030452

Eaton Moeller® series TM Changeover switches, TM, 10 A, center mounting, 3 contact unit(s), Contacts: 6, 60 °, maintained, Without 0 (Off) position, 1-2, Design number 8222, Key operated lock mechanism



General specifications

Product Name
Eaton Moeller® series TM Changeover switch

Catalog Number
030452

EAN
4015080304524

Product Length/Depth
83 mm

Product Height
30 mm

Product Width
30 mm

Product Weight
0.072 kg

Certifications

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

Powering Business Worldwide

Product specifications

Type

Changeover switch

Product Category

Control switches

Actuator function

Without 0 (Off) position

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

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

eaton-rotary-switches-front-plate-tm-changeover-switch-symbol.eps

eCAD model

DA-CE-ETN.TM-3-8222_EZ_S-J

Installation instructions

IL03801025Z

Installation videos

Eaton's P Switch-disconnectors used in a factory

mCAD model

DA-CD-tm3_ez_s

DA-CS-tm3_ez_s

Product notifications

MZ008006ZU_Orderform_Customized_Switch.pdf

MZ008005ZU_Orderform_Customized_Switch.pdf

Wiring diagrams

eaton-rotary-switches-contact-t0-changeover-switch-wiring-diagram-005.eps

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.

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

Enclosure material

Plastic

Rated impulse withstand voltage (Uimp)

4000 V AC

Actuator type

Key

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

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0.15 W

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

0

Number of auxiliary contacts (normally open contacts)

0

Number of contact units

3

Electrical connection type of main circuit

Screw connection

Mounting position

As required

Mounting method

Center mounting

Overvoltage category

III

Control circuit reliability

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

Number of poles

3

Degree of protection

IP65

Number of contacts

6

Model

Reverser

Degree of protection (front side)

IP65

NEMA 12

Inscription

1-2

Lifespan, mechanical

1,000,000 Operations

Screw size

M2.5, Terminal screw

Locking mechanism

Key actuation

Switching capacity (auxiliary contacts, general use)

10A, IU, (UL/CSA)

Tightening torque

0.4 Nm, Screw terminals

3.5 lb-in, Screw terminals

Switching capacity (auxiliary contacts, pilot duty)

A300 (UL/CSA)

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

0 A

Switching capacity (main contacts, general use)

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

Short-circuit protection rating

10 A gG/gL, Fuse, Contacts

Terminal capacity (flexible with ferrule)

1 x 1.0 mm², ferrules to DIN 46228

2 x 1.0 mm², ferrules to DIN 46228

Suitable for

Front mounting

Rated operational current for specified heat dissipation (In)

10 A

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

3 kW

Rated operational power at AC-3, 380/400 V, 50 Hz

3.3 kW

Rated operational voltage (Ue) at AC - max

500 V

Rated uninterrupted current (Iu)

10 A

Static heat dissipation, non-current-dependent Pvs

0 W

Switching angle

60 °

Terminal capacity (flexible)

1 x 1.5 mm²

2 x 1.5 mm²

Terminal capacity (solid/flexible with ferrule AWG)

14

Terminal capacity (solid/stranded)

1 x 1.5 mm²

2 x 1,5 mm²

Uninterrupted current

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

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

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