Eaton 223007

Catalog Number: 223007

Eaton Moeller® series T5B Multi-speed switches, T5B, 63 A, surface mounting, 4 contact unit(s), Contacts: 8, 90°, maintained, Without 0 (Off) position, 1-2, SOND 28, Design number 11

General specifications

Product Name

Eaton Moeller® series T5B Multi-speed

switch

EAN

4015082230074

Product Height

Product Weight

Catalog Notes

Rated Short-time Withstand Current

(Icw) for a time of 1 second

197 mm

1.435 kg

Catalog Number

223007

Product Length/Depth

240 mm

Product Width

160 mm

Certifications

IEC/EN 60947-3

UL

UL File No.: E36332

CSA-C22.2 No. 60947-4-1-14

IEC/EN 60947

CSA Class No.: 3211-07

UL Category Control No.: NLRV

VDE 0660

CE

CSA-C22.2 No. 94

IEC/EN 60204

UL 60947-4-1

CSA

CSA File No.: 012528









Product specifications

Type

Multi-speed switch

Product Category

Control switches

Features

Complete device in housing

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

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-00004897.pdf

DA-DC-00004925.pdf

Drawings

eaton-rotary-switches-t5b-changeover-switch-dimensions-002.eps
eaton-general-rotary-switch-t0-step-switch-symbol.eps
eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-014.eps
eaton-general-totally-insulated-t0-main-switch-symbol.eps

eCAD model

DA-CE-ETN.T5B-4-11_I4

Installation instructions

IL03801009Z

Installation videos

Eaton's P Switch-disconnectors used in a factory

mCAD model

DA-CD-bauform14

DA-CS-bauform14

Product notifications

 $MZ008006ZU_Order form_Customized_Switch.pdf$

 $MZ008005ZU_Order form_Customized_Switch.pdf$

Wiring diagrams

eaton-rotary-switches-t0-multi-speed-switch-wiring-diagram-014.eps eaton-rotary-switches-t0-multi-speed-switch-wiring-diagram-013.eps

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.

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)

6000 V AC

Actuator type Short thumb-grip 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 3 HP Assigned motor power at 200/208 V, 60 Hz, 1-phase 7.5 HP Assigned motor power at 200/208 V, 60 Hz, 3-phase 15 HP Assigned motor power at 230/240 V, 60 Hz, 1-phase 10 HP Assigned motor power at 230/240 V, 60 Hz, 3-phase 15 HP Assigned motor power at 460/480 V, 60 Hz, 3-phase 40 HP Assigned motor power at 575/600 V, 60 Hz, 3-phase 40 HP Equipment heat dissipation, current-dependent Pvid 0 W Heat dissipation capacity Pdiss Heat dissipation per pole, current-dependent Pvid 4.5 W Number of auxiliary contacts (change-over contacts) 0

Number of auxiliary contacts (normally open contacts)
0

0

Number of contact units

Number of auxiliary contacts (normally closed contacts)

4 Rated short-time withstand current (Icw) 1,3 kA, Contacts, 1 second Electrical connection type of main circuit Screw connection Mounting position As required Rated conditional short-circuit current (Iq) 2 kA Mounting method Surface mounting Overvoltage category Ш 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 NEMA 1 IP65 NEMA 12 Number of contacts 8 Model Dahlander switch Degree of protection (front side) IP65 NEMA 12 Inscription 1-2 Switch function type One tapped winding, 2 speeds Lifespan, mechanical

500,000 Operations

Safe isolation

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

Rated operational current (le)

63 A at AC-3, 400 V star-delta 29.4 A at AC-3, 690 V star-delta 63 A at AC-3, 230 V star-delta 57.2 A at AC-3, 500 V star-delta

Screw size

M6, Terminal screw

Shock resistance

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

Load rating

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

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)

Tightening torque

4 Nm, Screw terminals 35.4 lb-in, Screw terminals

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

6

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)

520 A

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

600 A

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

480 A

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

340 A

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

800 A

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

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

63 A

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

63 A

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

33 A

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

23.8 A

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

51 A

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

41 A

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

33 A

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

17 A

Switching capacity (main contacts, general use)

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

Safety parameter (EN ISO 13849-1)

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

Short-circuit protection rating

80 A gG/gL, Fuse, Contacts

Terminal capacity (flexible with ferrule)

2 x (1.5 - 10) mm², ferrule to DIN 46228

1 x (1 - 25) mm², ferrules to DIN 46228

Suitable for

Ground mounting

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

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

63 A

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

25 A

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

25 A

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

50 A

Rated operational current (le) at DC-23A, 240 V 20 A Rated operational current (le) at DC-23A, 48 V 50 A Rated operational current (le) at DC-23A, 60 V 50 A Rated operational current for specified heat dissipation (In) 63 A Rated operational power at AC-23A, 220/230 V, 50 Hz 18.5 kW Rated operational power at AC-23A, 400 V, 50 Hz 30 kW Rated operational power at AC-23A, 500 V, 50 Hz 22 kW Rated operational power at AC-23A, 690 V, 50 Hz 22 kW Rated operational power at AC-3, 380/400 V, 50 Hz 37 kW Rated operational power at AC-3, 415 V, 50 Hz 22 kW Rated operational power at AC-3, 690 V, 50 Hz 15 kW Rated operational power star-delta at 220/230 V, 50 Hz 18.5 kW Rated operational power star-delta at 380/400 V, 50 Hz 30 kW Rated operational power star-delta at 500 V, 50 Hz Rated operational power star-delta at 690 V, 50 Hz 22 kW Rated operational voltage (Ue) at AC - max 690 V Rated uninterrupted current (Iu) 63 A Static heat dissipation, non-current-dependent Pvs 0 W

Switching angle

Voltage per contact pair in series

60 V

Short-circuit current rating (high fault)

10 kA, SCCR (UL/CSA) 100 A, Class J, max. Fuse, SCCR (UL/CSA)

Terminal capacity (solid/flexible with ferrule AWG)

12 - 4

Terminal capacity (solid/stranded)

1 x (2.5 - 35) mm² 2 x (2.5 - 16) mm²

Uninterrupted current

Rated uninterrupted current lu is specified for max. crosssection.



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