Specifications

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

Catalog Number
223007

EAN
4015082230074

Product Length/Depth
240 mm

Product Height
197 mm

Product Width
160 mm

Product Weight
1.435 kg

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

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

Powering Business Worldwide

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_Orderform_Customized_Switch.pdf

MZ008005ZU_Orderform_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

0 W

Heat dissipation per pole, current-dependent Pvid

4.5 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

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

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

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 (Ie)

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, Half-sinusoidal shock 20 ms

Load rating

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

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 (Ie) at AC-21, 440 V

63 A

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

63 A

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

63 A

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

33 A

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

23.8 A

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

51 A

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

41 A

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

33 A

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

63 A

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

25 A

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

25 A

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

50 A

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

20 A

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

50 A

Rated operational current (Ie) 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

37 kW

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

90 °

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 Iu is specified for max. cross-section.

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