

Eaton 092229

Catalog Number: 092229

Eaton Moeller® series T5B Main switch, T5B, 63 A, flush mounting, 4 contact unit(s), 6 pole, 1 N/O, 1 N/C, STOP function, With black rotary handle and locking ring



General specifications

Product Name	Catalog Number
Eaton Moeller® series T5B Main switch	092229
Model Code	EAN
T5B-4-15164/EA/SVB-SW	4015080922292
Product Length/Depth	Product Height
173 mm	88 mm
Product Width	Product Weight
88 mm	0.951 kg
Warranty	Certifications
Eaton Selling Policy 25-000, one (1) year UL Listed from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.	CSA Certified UL File No.: E36332 UL Category Control No.: NLRV CSA CSA-C22.2 No. 60947-4-1-14 IEC/EN 60204 IEC/EN 60947-3 CSA Class No.: 3211-05 UL UL 60947-4-1 IEC/EN 60947 VDE 0660 CE CSA-C22.2 No. 94

Product specifications

Product Category

Main switch

Features

Version as main switch

Version as maintenance-/service switch

Actuator color

Black

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-00004925.pdf](#)

[DA-DC-00004897.pdf](#)

Drawings

[eaton-rotary-switches-padlock-t0-main-switch-dimensions.eps](#)

[eaton-rotary-switches-mounting-t5b-non-standard-switch-dimensions-023.eps](#)

[eaton-rotary-switches-t0-main-switch-symbol.eps](#)

[eaton-general-mounting-p1-main-switch-symbol.eps](#)

eCAD model

[ETN.092229.edz](#)

Installation instructions

[IL03801009Z](#)

Installation videos

[Eaton's P Switch-disconnectors used in a factory](#)

mCAD model

[DA-CS-t5\(b\)_4_ea](#)

[DA-CD-t5\(b\)_4_ea](#)

Product notifications

[MZ008006ZU_Orderform_Customized_Switch.pdf](#)

[MZ008005ZU_Orderform_Customized_Switch.pdf](#)

Specifications and datasheets

[Eaton Specification Sheet - 092229](#)

Wiring diagrams

[eaton-rotary-switches-switch-t0-main-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 rotary handle and locking ring

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)

6000 V AC

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 permanent current at AC-21, 400 V

63 A

Rated uninterrupted current (Iu)

63 A

Static heat dissipation, non-current-dependent Pvs

0 W

Switching angle

90 °

Switching power at 400 V

30 kW

Voltage per contact pair in series

60 V

Rated operational power at AC-3, 500 V, 50 Hz

22 kW

Device construction

Built-in device fixed built-in technique

Rated short-time withstand current (Icw)

1,3 kA, Contacts, 1 second

1.3 kA

Electrical connection type of main circuit

Screw connection

Design

15164

Mounting position

As required

Actuator type

Door coupling rotary drive

Ambient operating temperature - max

50 °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 P_{vid}

0 W

Heat dissipation capacity P_{diss}

0 W

Heat dissipation per pole, current-dependent P_{vid}

4.5 W

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

1

Rated conditional short-circuit current (I_q)

2 kA

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

Number of poles

6

Mounting method

Flush mounting

Degree of protection

NEMA 12

Suitable for

Front mounting center

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

Functions

Interlockable

STOP function

Number of switches

1

Safe isolation

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

Screw size

M6, Terminal screw

Shock resistance

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

Lifespan, mechanical

500,000 Operations

Load rating

1.3 x I_e (with intermittent operation class 12, 60 % duty factor)

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)

Terminal capacity

1 x (2.5 - 35) mm², solid or stranded

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

2 x (2.5 - 16) mm², solid or stranded

12 - 4 AWG, solid or flexible with ferrule

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

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

Number of auxiliary contacts (normally open contacts)

1

Number of contact units

4

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 operating voltage (Ue) - max

690 V

Rated operating voltage (Ue) - min

690 V

Rated operational voltage (Ue) at AC - max

690 V

Short-circuit current rating (high fault)

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

10 kA, SCCR (UL/CSA)

Short-circuit protection rating

80 A gG/gL, Fuse, Contacts

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

Rated operational current (Ie) at DC-1, load-break switches $I/r = 1$ 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 (Ie) star-delta at AC-3, 220/230 V

63 A

Rated operational current (Ie) star-delta at AC-3, 380/400 V

63 A

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

57.2 A

Rated operational current (Ie) star-delta at AC-3, 690 V

29.4 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

22 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

Tightening torque

35.4 lb-in, Screw terminals

4 Nm, Screw terminals

Uninterrupted current

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



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