Eaton 031726

Catalog Number: 031726

Eaton Moeller® series T0 Changeoverswitches, T0, 20 A, flush mounting, 4 contact unit(s), Contacts: 8, 60 °, maintained, With 0 (Off) position, 1-0-2, Design number 8213



General specifications

Product Name	Cat
Eaton Moeller® series T0 Changeover	03
switch	Pro 10
Product Height	Pro
48 mm	48
Product Weight	Ce

Catalog Number 031726

Product Length/Depth 105 mm

Product Width 48 mm

Certifications

CSA CSA File No.: 012528 CSA-C22.2 No. 60947-4-1-14 UL Category Control No.: NLRV VDE 0660 CE IEC/EN 60947 UL File No.: E36332 CSA-C22.2 No. 94 IEC/EN 60947-3 UL 60947-4-1 CSA Class No.: 3211-05 IEC/EN 60204 UL



Catalog Notes

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

EAN

4015080317265

Model Code T0-4-8213/E

defaultTaxonomyAttributeLabel

Туре

Changeover switch

Product Category Control switches

Actuator function

Maintained With 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.

Resources

Brochures

Brochure - T Rotary Cam switch and P Switch-disconnector

Catalogues

P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN

Declarations of conformity

DA-DC-00004895.pdf

DA-DC-00004927.pdf

Drawings

eaton-rotary-switches-mounting-t0-step-switch-dimensions-027.eps eaton-rotary-switches-mounting-t0-changeover-switch-3d-drawing-002.eps eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-009.eps

eaton-general-rotary-switch-t0-step-switch-symbol-002.eps

eCAD model

DA-CE-ETN.TO-4-8213_E

Installation instructions

IL03801020Z

Installation videos

Eaton's P Switch-disconnectors used in a factory

mCAD model

DA-CD-t0_4_e

DA-CS-t0_4_e

Wiring diagrams

eaton-rotary-switches-changeover-switch-t0-changeover-switch-wiringdiagram-004.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 thumb grip and front plate 0 (off) position

Operating frequency 1200 Operations/h

Pollution degree

Enclosure material

3

Climatic proofing Damp heat, constant, to IEC 60068-2-78

Damp heat, cyclic, to IEC 60068-2-30

Plastic Rated impulse withstand voltage (Uimp)

6000 V AC

Actuator type

Short thumb-grip

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 0.5 HP

Assigned motor power at 200/208 V, 60 Hz, 1-phase 1 HP

Assigned motor power at 200/208 V, 60 Hz, 3-phase 3 HP

Assigned motor power at 230/240 V, 60 Hz, 1-phase 1.5 HP

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

Assigned motor power at 460/480 V, 60 Hz, 3-phase 7.5 HP

Assigned motor power at 575/600 V, 60 Hz, 3-phase 7.5 HP

Equipment heat dissipation, current-dependent Pvid 0 W

Heat dissipation capacity Pdiss 0 W

Heat dissipation per pole, current-dependent Pvid 0.6 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)

320 A, Contacts, 1 second

Electrical connection type of main circuit

Screw connection

Mounting position

As required

Rated conditional short-circuit current (Iq)

6 kA

Mounting method

Flush 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

4

Degree of protection

NEMA 12 NEMA 1 IP65

Number of contacts

8

Model

Reverser

Degree of protection (front side) IP65

NEMA 12

Inscription

1-0-2

Lifespan, mechanical

400,000 Operations

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

Rated operational current (le)

8.5 A at AC-3, 690 V star-delta
15.6 A at AC-3, 500 V star-delta
20 A at AC-3, 230 V star-delta
20 A at AC-3, 400 V star-delta

Screw size

M3.5, Terminal screw

Shock resistance

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

Load rating

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

Switching capacity (auxiliary contacts, general use) 10A, IU, (UL/CSA)

Tightening torque

1 Nm, Screw terminals 8.8 lb-in, Screw terminals

Switching capacity (auxiliary contacts, pilot duty)

A600 (UL/CSA) P300 (UL/CSA)

Number of contacts in series at DC-21A, 240 V

1

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

5

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) 100 A

Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3) 110 A

Rated breaking capacity at 500 V (cos phi to IEC 60947-3) 80 A

Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3) 60 A

Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3) 130 A Rated operational current (le) at AC-21, 440 V 20 A Rated operational current (le) at AC-23A, 230 V 13.3 A Rated operational current (le) at AC-23A, 400 V, 415 V 13.3 A Rated operational current (le) at AC-23A, 500 V 13.3 A Rated operational current (Ie) at AC-23A, 690 V 7.6 A Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V 11.5 A Rated operational current (le) at AC-3, 380 V, 400 V, 415 V 11.5 A Rated operational current (le) at AC-3, 500 V 9 A Rated operational current (le) at AC-3, 660 V, 690 V 4.9 A Switching capacity (main contacts, general use) 16 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 20 A gG/gL, Fuse, Contacts Terminal capacity (flexible with ferrule) 2 x (0.75 - 2.5) mm², ferrules to DIN 46228 1 x (0.75 - 2.5) mm², ferrules to DIN 46228 Suitable for Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting Rated operational current (le) at DC-1, load-break switches l/r = 1 ms 10 A Rated operational current (Ie) at DC-13, control switches L/R = 50 ms

10 A

Rated operational current (le) at DC-21, 240 V 1 A Rated operational current (le) at DC-23A, 120 V 5 A Rated operational current (Ie) at DC-23A, 24 V 10 A Rated operational current (le) at DC-23A, 240 V 5 A Rated operational current (le) at DC-23A, 48 V 10 A Rated operational current (Ie) at DC-23A, 60 V 10 A Rated operational current for specified heat dissipation (In) 20 A Rated operational power at AC-23A, 220/230 V, 50 Hz 3 kW Rated operational power at AC-23A, 400 V, 50 Hz 5.5 kW Rated operational power at AC-23A, 500 V, 50 Hz 7.5 kW Rated operational power at AC-23A, 690 V, 50 Hz 5.5 kW Rated operational power at AC-3, 380/400 V, 50 Hz 4 kW Rated operational power at AC-3, 415 V, 50 Hz 5.5 kW Rated operational power at AC-3, 690 V, 50 Hz 4 kW Rated operational power star-delta at 220/230 V, 50 Hz 5.5 kW Rated operational power star-delta at 380/400 V, 50 Hz 7.5 kW Rated operational power star-delta at 500 V, 50 Hz 7.5 kW Rated operational power star-delta at 690 V, 50 Hz 5.5 kW Rated operational voltage (Ue) at AC - max

690 V

Rated uninterrupted current (lu)

20 A

Static heat dissipation, non-current-dependent Pvs 0 W

Switching angle

60 °

Voltage per contact pair in series 60 V

Short-circuit current rating (high fault) 10 kA, SCCR (UL/CSA) 20 A, Class J, max. Fuse, SCCR (UL/CSA)

Short-circuit current rating (basic rating)

5 kA, SCCR (UL/CSA) 50A, max. Fuse, SCCR (UL/CSA)

Terminal capacity (solid/flexible with ferrule AWG)

18 - 14

Terminal capacity (solid/stranded)

2 x (1 - 2.5) mm² 1 x (1 - 2.5) mm²

Uninterrupted current

Rated uninterrupted current lu is specified for max. crosssection.

Design

8213



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