

Eaton 207123

Catalog Number: 207123

Eaton Moeller® series T0 Changeoverswitches, T0, 20 A, surface mounting, 3 contact unit(s), Contacts: 6, 60 °, maintained, With 0 (Off) position, 1-0-2, Design number 8212

General specifications

Product Name	Catalog Number
Eaton Moeller® series T0 Changeover switch	207123
	Model Code
	T0-3-8212/11
EAN	Product Length/Depth
4015082071233	137 mm
Product Height	Product Width
122 mm	80 mm
Product Weight	Certifications
.288 kg	IEC/EN 60947 IEC/EN 60204 IEC/EN 60947-3 VDE 0660
Catalog Notes	Model Code
Rated Short-time Withstand Current (Icw) for a time of 1 second	T0-3-8212/11

Features & Functions

Enclosure material

Plastic

Features

Complete device in housing

Fitted with:

Black thumb grip and front plate
0 (off) position

Inscription

1-0-2

Number of poles

3

General

Degree of protection

IP65

Degree of protection (front side)

IP65

NEMA 12

Lifespan, mechanical

400,000 Operations

Model

Reverser

Mounting method

Surface mounting

Number of contact units

3

Operating frequency

1200 Operations/h

Overvoltage category

III

Pollution degree

3

Product Category

Control switches

Rated impulse withstand voltage (Uimp)

6000 V AC

Safe isolation

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

Safety parameter (EN ISO 13849-1)

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

Shock resistance

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

Suitable for

Ground mounting

Switching angle

60 °

Type

Changeover switch

Climatic environmental conditions

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

40 °C

Ambient operating temperature (enclosed) - min

-25 °C

Ambient operating temperature (enclosed) - max

40 °C

Climatic proofing

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

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

Terminal capacities

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

Terminal capacity (solid/stranded)

1 x (1 - 2.5) mm²

2 x (1 - 2.5) mm²

Screw size

M3.5, Terminal screw

Tightening torque

1 Nm, Screw terminals

8.8 lb-in, Screw terminals

Electrical rating

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 operational current (I_e)

20 A at AC-3, 400 V star-delta

15.6 A at AC-3, 500 V star-delta

8.5 A at AC-3, 690 V star-delta

20 A at AC-3, 230 V star-delta

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

11.5 A

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

11.5 A

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

9 A

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

4.9 A

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

20 A

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

13.3 A

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

13.3 A

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

13.3 A

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

7.6 A

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

10 A

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

10 A

Rated operational current (I_e) at DC-21, 240 V

1 A

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

5 A

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

10 A

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

5 A

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

10 A

Rated operational current (I_e) at DC-23A, 60 V

10 A

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 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

Short-circuit rating

Rated conditional short-circuit current (I_q)

6 kA

Rated short-time withstand current (I_{cw})

320 A, Contacts, 1 second

Short-circuit protection rating

20 A gG/gL, Fuse, Contacts

Switching capacity

Load rating

2 x I_e (with intermittent operation class 12, 25 % duty factor)

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

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

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

1

Number of contacts in series at DC-23A, 24 V

1

Number of contacts in series at DC-23A, 48 V

2

Number of contacts in series at DC-23A, 60 V

3

Number of contacts in series at DC-23A, 120 V

3

Number of contacts in series at DC-23A, 240 V

5

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

130 A

Voltage per contact pair in series

60 V

Contacts

Control circuit reliability

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

Rated operational power at AC-23A, 690 V, 50 Hz

5.5 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 (Iu)

20 A

Uninterrupted current

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

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 contacts

6

Actuator

Actuator function

Maintained

With 0 (Off) position

Actuator type

Short thumb-grip

Design verification

Equipment heat dissipation, current-dependent P_{vid}

0 W

Heat dissipation capacity P_{diss}

0 W

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

.6 W

Rated operational current for specified heat dissipation (I_n)

20 A

Static heat dissipation, non-current-dependent P_{vs}

0 W

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.

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.

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

Resources

Brochures

Brochure - T Rotary Cam switch and P Switch-disconnector

Catalogues

P1-40 Switch-disconnectors

P Switch-disconnectors and T Rotary cam switches catalogue
CA042001EN

Compliance information

UKCA T0 rotary cam switches and accessories

CE T0 rotary cam switches and accessories

Drawings

eaton-rotary-switches-t0-changeover-switch-dimensions-002.eps

115X161

eaton-rotary-switches-dimensions-t0-step-switch-dimensions.eps

115X113

eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-009.eps

115K003

eaton-rotary-switches-surface-mounting-t0-changeover-switch-3d-drawing.eps

eaton-general-totally-insulated-t0-main-switch-symbol.eps

1150DRW-3

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

000Z078

000Z083

eCAD model

DA-CE-ETN.T0-3-8212_I1

Installation instructions

Cam switch: Surface mounting enclosure (IL03801007Z)

mCAD model

DA-CS-bauform4

DA-CD-bauform4

Wiring diagrams

115S291-2

eaton-rotary-switches-changeover-switch-t0-changeover-switch-wiring-diagram-003.eps

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.



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