

Eaton 218980

Catalog Number: 218980

Eaton Moeller® series T0 Universal control switches, T0, 20 A, surface mounting, 3 contact unit(s), Contacts: 6, 45 °, momentary/maintained, With 0 (Off) position, With spring-return to 0, 2>0-1, Design number 15393

General specifications

Product Name	Catalog Number
Eaton Moeller® series T0 Universal control switch	218980
	EAN
	4015082189808
Product Length/Depth	Product Height
137 mm	122 mm
Product Width	Product Weight
80 mm	0.288 kg
Certifications	Catalog Notes
IEC 60947	Rated Short-time Withstand Current
EN 60204	(Icw) for a time of 1 second
EN 60947	
VDE	
IEC/EN 60947	
VDE 0660	
IEC/EN 60947-3	
IEC/EN 60204	



Product specifications

Type

Universal control switch

Features

Complete device in housing

Actuator function

With 0 (Off) position

Spring-return to 0

Maintained/momentary

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-00004927.pdf

DA-DC-00004895.pdf

Drawings

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

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

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

eaton-rotary-switches-front-plate-t0-universal-control-switch-symbol-002.eps

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

eCAD model

ETN.T0-3-15393_I1

Installation instructions

IL03801007Z2021_06.pdf

Installation videos

Eaton's P Switch-disconnectors used in a factory

mCAD model

DA-CS-bauform4

DA-CD-bauform4

Product notifications

MZ008006ZU_Orderform_Customized_Switch.pdf

MZ008005ZU_Orderform_Customized_Switch.pdf

Wiring diagrams

eaton-rotary-switches-t0-universal-control-switch-wiring-diagram-003.eps

eaton-rotary-switches-t0-universal-control-switch-wiring-diagram-004.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:

Retraction in 0-position

0 (off) position

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

Rated impulse withstand voltage (Uimp)

6000 V AC

Rated uninterrupted current (Iu)

20 A

Static heat dissipation, non-current-dependent Pvs

0 W

Switching angle

45 °

Voltage per contact pair in series

60 V

Width in number of modular spacings

0

Product category

Control switches

Number of poles

Zero-pole

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

5.5 kW

Device construction

Surface mounted device

Switch type

Group switch

Rated short-time withstand current (Icw)

320 A, Contacts, 1 second

Actuator type

Toggle

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

Equipment heat dissipation, current-dependent Pvid

0 W

Mounting position

As required

Mounting method

Surface mounting

Rated conditional short-circuit current (I_q)

6 kA

Degree of protection

IP65

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

NEMA 12

Number of contacts

6

Suitable for

Ground mounting

Heat dissipation capacity P_{diss}

0 W

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

0.6 W

Number of contact units

3

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

Front shield size

48x48 mm

Safe isolation

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

Screw size

M3.5, Terminal screw

Inscription

2>0-1

Shock resistance

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

Lifespan, mechanical

400,000 Operations

Number of switch positions

3

Load rating

$2 \times I_e$ (with intermittent operation class 12, 25 % duty factor)

$1.3 \times I_e$ (with intermittent operation class 12, 60 % duty factor)

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

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 operating voltage (Ue) at AC - max

690 V

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

20 A

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

13.3 A

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

13.3 A

Rated operational current (Ie) 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 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 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

Safety parameter (EN ISO 13849-1)

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

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 current (I_e) star-delta at AC-3, 230 V

20 A

Rated operational current (I_e) star-delta at AC-3, 400 V

20 A

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

15.6 A

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

8.5 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, 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

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

Short-circuit protection rating

20 A gG/gL, Fuse, Contacts

Terminal capacity (solid/stranded)

2 x (1 - 2.5) mm²

1 x (1 - 2.5) mm²

Tightening torque

1 Nm, Screw terminals

Uninterrupted current

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

Design

15393



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