

Eaton 019875

Catalog Number: 019875

Eaton Moeller® series T0 ON-OFF button, T0, 20 A, flush mounting, 1 contact unit(s), Contacts: 2, Spring-return in START position, 90 °, maintained, With 0 (Off) position, With spring-return to 1, 0-1<START, Design number 15511

General specifications

Product Name	Catalog Number
Eaton Moeller® series T0 Accessory ON OFF button	019875
	Model Code
	T0-1-15511/E
EAN	Product Length/Depth
4015080198758	76 mm
Product Height	Product Width
48 mm	48 mm
Product Weight	Certifications
.083 kg	CSA File No.: 012528 CSA-C22.2 No. 60947-4-1-14 UL File No.: E36332 CSA Class No.: 3211-05 UL Category Control No.: NLRV IEC/EN 60204 IEC/EN 60947-3 UL 60947-4-1 UL CE CSA-C22.2 No. 94 CSA IEC/EN 60947 VDE 0660
Catalog Notes	
Rated Short-time Withstand Current (Icw) for a time of 1 second	



Product specifications

Rated operational current for specified heat dissipation (I_n)

20 A

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

10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

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

10 A

10.4 Clearances and creepage distances

Meets the product standard's requirements.

Mounting method

Flush mounting

Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)

100 A

Design

15511

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

Fitted with:

0 (off) position

Black thumb grip and front plate

Retraction in 0-position

Inscription

" 0-1

Degree of protection (front side)

IP65

NEMA 12

Short-circuit current rating (basic rating)

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

5 kA, SCCR (UL/CSA)

Short-circuit current rating (high fault)

10 kA, SCCR (UL/CSA)

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

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

Resources

Brochures

Brochure - T Rotary Cam switch and P Switch-disconnector

Catalogs

P1-40 Switch-disconnectors

P Switch-disconnectors and T Rotary cam switches catalogue
CA042001EN

Compliance information

CE T0 rotary cam switches and accessories

UKCA T0 rotary cam switches and accessories

Drawings

eaton-rotary-switches-mounting-t0-step-switch-dimensions-034.eps

115X410

eaton-rotary-switches-front-plate-control-switch-symbol-007.eps

eaton-rotary-switches-mounting-t0-changeover-switch-3d-drawing-002.eps

1150DRW-5

115K034

000Z079

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

eCAD model

DA-CE-ETN.T0-1-15511_E

Installation instructions

IL03801020Z

mCAD model

DA-CD-t0_1_e

DA-CS-t0_1_e

Wiring diagrams

115S310-2

eaton-rotary-switches-switch-t0-main-switch-wiring-diagram-005.eps

5 A

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

5 A

Rated conditional short-circuit current (I_q)

6 kA

Actuator type

Toggle

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

130 A

Switch type

On/Off switch

Ambient operating temperature - max

50 °C

Assigned motor power at 115/120 V, 60 Hz, 1-phase

.5 HP

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

80 A

Number of poles

Two-pole

Rated operational power star-delta at 380/400 V, 50 Hz

7.5 kW

Ambient operating temperature - min

-25 °C

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

Rated uninterrupted current (I_u)

20 A

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

Operating frequency

1200 Operations/h

Product category

Control switches

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

2

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

10 A

Rated operating voltage (Ue) at AC - max

690 V

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

1

Heat dissipation capacity P_{diss}

0 W

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

7.5 HP

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

1 HP

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

13.3 A

Width in number of modular spacings

0

Switching angle

90 °

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

Degree of protection

NEMA 1

IP65

NEMA 12

Overvoltage category

III

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

13.3 A

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

10 A

Pollution degree

3

Rated operational power at AC-23A, 500 V, 50 Hz

7.5 kW

Rated impulse withstand voltage (U_{imp})

6000 V AC

Voltage per contact pair in series

60 V

Tightening torque

1 Nm, Screw terminals

8.8 lb-in, Screw terminals

Rated operational power at AC-3, 690 V, 50 Hz

4 kW

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

4.9 A

Type

ON-OFF button

10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation

UV resistance only in connection with protective shield.

10.2.7 Inscriptions

Meets the product standard's requirements.

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

11.5 A

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

1

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

5.5 kW

Shock resistance

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

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

3 HP

Ambient operating temperature (enclosed) - min

-25 °C

Number of contact units

1

Terminal capacity (solid/flexible with ferrule AWG)

18 - 14

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

1 A

Rated operational power at AC-23A, 400 V, 50 Hz

5.5 kW

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

13.3 A

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

10 A

Rated operational power at AC-23A, 220/230 V, 50 Hz

3 kW

10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

Ambient operating temperature (enclosed) - max

40 °C

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

20 A

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

20 A

10.8 Connections for external conductors

Is the panel builder's responsibility.

Screw size

M3.5, Terminal screw

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

7.5 HP

Load rating

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

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

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

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

7.6 A

Rated operational power at AC-3, 415 V, 50 Hz

5.5 kW

Climatic proofing

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

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

Device construction

Built-in device

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

110 A

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

0 W

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

Safe isolation

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

Mounting position

As required

Safety parameter (EN ISO 13849-1)

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

Actuator function

Spring-return in START position

With 0 (Off) position

Maintained

Spring-return to 1

10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

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

10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

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

.6 W

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

20 A

Switching capacity (auxiliary contacts, general use)

10A, IU, (UL/CSA)

Rated operational power star-delta at 500 V, 50 Hz

7.5 kW

Uninterrupted current

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

Equipment heat dissipation, current-dependent P_{vid}

0 W

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

3 HP

Suitable for

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

Front mounting

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

60 A

Front shield size

48x48 mm

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

5

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

10 A

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

8.5 A

10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

Rated operational power star-delta at 690 V, 50 Hz

5.5 kW

10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

Meets the product standard's requirements.

Lifespan, mechanical

400,000 Operations

Number of contacts

2

Number of switch positions

2

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

3

Control circuit reliability

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

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

320 A, Contacts, 1 second

10.7 Internal electrical circuits and connections

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.

Switching capacity (main contacts, general use)

16 A, Rated uninterrupted current max. (UL/CSA)

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

3

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

9 A

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

1.5 HP

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

11.5 A

Terminal capacity (solid/stranded)

2 x (1 - 2.5) mm²

1 x (1 - 2.5) mm²

Short-circuit protection rating

20 A gG/gL, Fuse, Contacts

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

15.6 A

Switching capacity (auxiliary contacts, pilot duty)

P300 (UL/CSA)

A600 (UL/CSA)



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