Eaton 255901

Catalog Number: 255901

Eaton Moeller® series P3 Main switch, P3, 63 A, surface mounting, 3 pole, 1 N/O, 1 N/C, Emergency switching off function, With red rotary handle and yellow locking ring, UL/CSA

General specifications

Product Weight

Product Name Catalog Number

Eaton Moeller® series P3 Main switch 255901

EAN Product Length/Depth

4015082559014 139 mm

Product Height Product Width

240 mm 160 mm

1.105 kg CSA-C22.2 No. 60947-4-1-14

CSA-C22.2 No. 94 IEC/EN 60947-3

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Certifications

UL File No.: E36332

CSA

UL

IEC/EN 60947 UL 60947-4-1 VDE 0660 IEC/EN 60204

CE

CSA File No.: 012528 CSA Class No.: 3211-05 UL Category Control No.: NLRV



Product specifications

Product Category

Main switch

Features

Version as emergency stop installation

Version as main switch

Version as maintenance-/service switch

Actuator color

Red

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

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

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-00004896.pdf

DA-DC-00004924.pdf

Drawings

eaton-rotary-switches-padlock-t0-main-switch-dimensions.eps eaton-rotary-switches-p3-main-switch-dimensions-009.eps eaton-general-totally-insulated-t0-main-switch-symbol.eps eaton-general-switch-t0-main-switch-symbol.eps

eCAD model

ETN.P3-63_I4_SVB_HI11-NA

Installation instructions

eaton-rotary-switches-p3-63-p3-80-p3-100-cam-switch-disconnector-p3-instruction-leaflet-il03801010z.pdf

Installation videos

Eaton's P Switch-disconnectors used in a factory

mCAD model

DA-CS-bauform11

DA-CD-bauform11

Product notifications

MZ008005ZU_Orderform_Customized_Switch.pdf

 $MZ008006ZU_Order form_Customized_Switch.pdf$

Wiring diagrams

eaton-rotary-switches-contact-p1-main-switch-wiring-diagram.eps

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:

Red rotary handle and yellow 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 permanent current at AC-21, 400 V

63 A

Rated permanent current at AC-23, 400 V

63 A Rated uninterrupted current (Iu) 63 A Static heat dissipation, non-current-dependent Pvs 0 W Switching power at 400 V 30 kW Voltage per contact pair in series 60 V Accessories Auxiliary contact or neutral conductor fitted by user. Rated operational power at AC-3, 500 V, 50 Hz 30 kW **Device construction** Complete device in housing Rated short-time withstand current (Icw) 1.26 kA Electrical connection type of main circuit Screw connection Mounting position As required Actuator type Door coupling rotary drive 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

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 50 HP Equipment heat dissipation, current-dependent Pvid 4.5 W Heat dissipation capacity Pdiss 0 W Heat dissipation per pole, current-dependent Pvid 4.5 W Number of auxiliary contacts (change-over contacts) 0 Number of auxiliary contacts (normally closed contacts) Rated conditional short-circuit current (Iq) 4 kA (Load side) 100 kA (Supply side) Overvoltage category Ш 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 3 Mounting method Surface mounting Degree of protection NEMA 12 Suitable for

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

Ground mounting

Functions

Emergency switching off function

Interlockable

Number of switches

1

Safe isolation

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

Screw size

M5, Terminal screw

Shock resistance

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

Lifespan, mechanical

100,000 Operations

Load rating

2 x 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 x I_e (with intermittent operation class 12, 40 % duty

factor)

Switching capacity (auxiliary contacts, general use)

10A, IU, (UL/CSA)

Switching capacity (auxiliary contacts, pilot duty)

A600 (UL/CSA)

P600 (UL/CSA)

Terminal capacity

1 x (1.5 - 25) mm², flexible with ferrules to DIN 46228

14 - 2 AWG, solid or flexible with ferrule

2 x (1.5 - 6) mm², flexible with ferrules to DIN 46228

2 x (2.5 - 10) mm², solid or stranded

1 x (2.5 - 35) mm², solid or stranded

Switching capacity (main contacts, general use)

60 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 contacts in series at DC-23A, 120 V

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Number of contacts in series at DC-23A, 24 V
Number of contacts in series at DC-23A, 48 V
2
Number of contacts in series at DC-23A, 60 V
2
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)
640 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)
590 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 (basic rating)
150A, max. Fuse, SCCR (UL/CSA)
10 kA, SCCR (UL/CSA)
Short-circuit protection rating
80 A gG/gL, Fuse, Contacts
Rated operational current (le) at AC-21, 440 V
63 A
Rated operational current (le) at AC-23A, 230 V
63 A
Rated operational current (le) at AC-23A, 400 V, 415 V
63 A
Rated operational current (le) at AC-23A, 500 V
63 A
Rated operational current (le) at AC-23A, 690 V
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63 A

Rated operational current (le) at AC-3, 220 V, 230 V, 240 V 51 A Rated operational current (le) at AC-3, 380 V, 400 V, 415 V 55 A Rated operational current (le) at AC-3, 500 V 44 A Rated operational current (le) at AC-3, 660 V, 690 V 22.1 A Rated operational current (le) at DC-1, load-break switches I/r = 1 63 A Rated operational current (le) at DC-23A, 120 V 25 A Rated operational current (le) at DC-23A, 24 V 50 A Rated operational current (le) at DC-23A, 48 V 50 A Rated operational current (le) at DC-23A, 60 V 50 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 45 kW Rated operational power at AC-23A, 690 V, 50 Hz 55 kW Rated operational power at AC-3, 380/400 V, 50 Hz 30 kW Rated operational power at AC-3, 415 V, 50 Hz Rated operational power at AC-3, 690 V, 50 Hz 30 kW

Tightening torque

26.5 lb-in, Screw terminals 3 Nm, Screw terminals

Uninterrupted current

Rated uninterrupted current lu is specified for max. crosssection.

Rated Switching Capacity

10 HP at 240 V AC, single-phase 15 HP at 200 V AC, three-phase 15 HP at 240 V AC, three-phase 3 HP at 120 V AC, single-phase 40 HP at 480 V AC, three-phase 50 HP at 600 V AC, three-phase 7.5 HP at 200 V AC, single-phase



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