Specifications

Eaton 237893

Catalog Number: 237893

Eaton Moeller® series P3 Main switch, P3, 30 A, flush mounting, 3 pole, With black rotary handle and locking ring, Lockable in the 0 (Off) position, UL/CSA

General specifications

Product Name
Eaton Moeller® series P3 Main switch

Catalog Number
237893

EAN
4015082378936

Product Length/Depth
150 mm

Product Height
114 mm

Product Width
90 mm

Product Weight
0.374 kg

Certifications
UL
CSA
UL489
UL 489
UL File No.: E148671
CSA File No.: 1342868 (LR12528)

Product specifications

Product Category

Main switch

Features

Version as main switch

Version as maintenance-/service switch

Actuator color

Black

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

Catalogs

P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN

Drawings

eaton-rotary-switches-p3-main-switch-dimensions-007.eps

eaton-rotary-switches-padlock-t0-main-switch-dimensions.eps

eaton-general-mounting-p1-main-switch-symbol.eps

eaton-rotary-switches-t0-main-switch-symbol.eps

eaton-rotary-switches-mounting-p1-main-switch-3d-drawing.eps

eCAD model

DA-CE-ETN.P3-30_EA_SVB-SW-MCS

Installation instructions

IL03802006Z

Installation videos

Eaton's P Switch-disconnectors used in a factory

mCAD model

DA-CD-p3_zz10

DA-CS-p3_zz10

Product notifications

MZ008006ZU_Orderform_Customized_Switch.pdf

MZ008005ZU_Orderform_Customized_Switch.pdf

Wiring diagrams

eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram.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 rotary handle and locking ring

Operating frequency

1200 Operations/h

Pollution degree

3

Climatic proofing

Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30

Rated impulse withstand voltage (Uimp)

6000 V AC

Rated permanent current at AC-21, 400 V

0 A

Rated uninterrupted current (Iu)

30 A

Switching power at 400 V

0 kW

Device construction

Built-in device fixed built-in technique

Rated short-time withstand current (Icw)

0 kA

Electrical connection type of main circuit

Screw connection

Mounting position

As required

Actuator type

Door coupling rotary drive

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

Heat dissipation capacity Pdiss

0 W

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

0

Rated conditional short-circuit current (Iq)

4 kA (Load side)

100 kA (Supply side)

Overvoltage category

III

Degree of protection (front side)

IP65

Number of poles

3

Mounting method

Flush mounting

Degree of protection

NEMA 12

Suitable for

Front mounting 4-hole

Branch circuits, feeder circuits, (UL/CSA)

Locking facility

Lockable in the 0 (Off) position

Functions

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)

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

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

Terminal capacity

14 - 2 AWG, solid or flexible with ferrule

Switching capacity (main contacts, general use)

30 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)

0

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 (high fault)

30 A, Class RK5, max. Fuse, SCCR (UL/CSA)

10 kA, SCCR (UL/CSA)

Short-circuit protection rating

100 A gG/gL, Fuse, Contacts

Rated operational current for specified heat dissipation (In)

30 A

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

0 kW

Rated operational power at AC-3, 380/400 V, 50 Hz

0 kW

Tightening torque

26.5 lb-in, Screw terminals

Uninterrupted current

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

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