Specifications

# Eaton 237892

## Catalog Number: 237892

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

### General specifications

**Product Name**
Eaton Moeller® series P3 Main switch

**Catalog Number**
237892

**EAN**
4015082378929

**Product Length/Depth**
150 mm

**Product Height**
114 mm

**Product Width**
90 mm

**Product Weight**
0.374 kg

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

## Product specifications

### Product Category

Main switch

### Features

Version as main switch

Version as maintenance-/service switch

Version as emergency stop installation

### 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 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

## 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-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

MZ008005ZU_Orderform_Customized_Switch.pdf

MZ008006ZU_Orderform_Customized_Switch.pdf

### Wiring diagrams

eaton-rotary-switches-on-off-switch-p3-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

0 A

### Rated uninterrupted current (Iu)

30 A

Switching power at 400 V

0 kW

Voltage rating - max

480 V

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

Branch circuits, feeder circuits, (UL/CSA)
Front mounting 4-hole

### 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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