Specifications

# Eaton 120936



## Catalog Number: 120936

Eaton Moeller® series P-SOL Switch-disconnector, DC current, 60A

### General specifications

**Product Name**
Eaton Moeller® series P-SOL Switch-disconnector

**Catalog Number**
120936

**EAN**
4015081187669

**Product Length/Depth**
140 mm

**Product Height**
160 mm

**Product Width**
55 mm

**Product Weight**
0.994 kg

**Certifications**
UL Recognized
CE
TÜV-certified
UL File No.: E338590
CSA
CSA File No.: 165628
CSA-C22.2 No. 14-10
UL Category Control No.: NRNT2
CSA Class No.: 3211-05
UL 508
IEC60439-1
IEC/EN 60947-3

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## Features & Functions

Actuator color

Black

Actuator type

Turn button

Design

Open

Features

Isolating characteristics

Fitted with:

Voltage release optional

Number of poles

Two-pole

Number of poles

Two-pole

## General

Degree of protection

NEMA Other

Degree of protection (front side)

IP20

Lifespan, electrical

1,500 Operations

Lifespan, mechanical

30,000 Operations

Mounting method

Top-hat rail fixing (according to IEC/EN 60715, 35 mm)

Mounting position

As required

Operating frequency

120 Operations/h

Product Category

Switchgear for photovoltaic systems

Product Category

Switchgear for photovoltaic systems

Protection class

2

Suitable for

Distribution board installation

Ground mounting

SCCR: 10 kA (600 V DC, 70 A max. fuse), (UL/CSA)

## Climatic environmental conditions

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

60 °C

Climatic proofing

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

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

## Terminal capacities

Terminal capacity

1 x (1 - 35) mm², flexible with ferrule to DIN 46228

14 - 2 AWG, solid or stranded

2 x (1 - 35) mm², flexible with ferrule to DIN 46228

Screw size

2 x M4 x 18, 30 x 130 mm, Mounting Screw

## Electrical rating

Rated operational current (Ie) at DC-21A

60 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

Rated uninterrupted current (Iu)

63 A

Resistance

3 m Ω ( internal)

## Short-circuit rating

Rated conditional short-circuit current (Iq)

0 kA

Rated short-circuit making capacity (Icm)

0.6 kA (up to 440 V, 50/60 Hz)

Rated short-time withstand current (Icw)

1.5 kA

## Contacts

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

0

Number of auxiliary contacts (normally open contacts)

0

## Design verification

Equipment heat dissipation, current-dependent Pvid

3.97 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0 W

Rated operational current for specified heat dissipation (In)

60 A

Static heat dissipation, non-current-dependent Pvs

0 W

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

## Resources

Catalogs

Switching and protecting motors - catalog

Product Range Catalog Switching and protecting motors

Declarations of conformity

DA-DC-00004851.pdf

DA-DC-00004787.pdf

Drawings

eaton-manual-motor-starters-mounting-pkz-sol-string-circuit-breaker-dimensions.eps

eaton-manual-motor-starters-pkzm4-dimensions.eps

eaton-contactors-mounting-pkz-sol-string-circuit-breaker-dimensions.eps

eaton-manual-motor-starters-p-sol-switch-disconnector-3d-drawing-002.eps

eCAD model

ETN.P-SOL60

Installation instructions

IL03801005Z

mCAD model

Meets the product standard's requirements.

### 10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

### 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.

### 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.

### 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.

DA-CD-pkzm4

DA-CS-pkzm4

### 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.

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Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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