Specifications

Eaton 120934



Catalog Number: 120934

Eaton Moeller® series P-SOL Switch-disconnector, DC current, 20A

General specifications

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

Catalog Number
120934

EAN
4015081187645

Product Length/Depth
93 mm

Product Height
76 mm

Product Width
58 mm

Product Weight
0.286 kg

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

Powering Business Worldwide

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

100,000 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

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

Ground mounting

Distribution board installation

Climatic environmental conditions

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

60 °C

Climatic proofing

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

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

Terminal capacities

Terminal capacity

18 - 14 AWG, solid or stranded

1 x (1 - 6) mm², flexible with ferrule to DIN 46228

2 x (1 - 6) mm², flexible with ferrule to DIN 46228

Electrical rating

Rated operational current (Ie) at DC-21A

20 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)

20 A

Resistance

6 mΩ (internal)

Short-circuit rating

Rated conditional short-circuit current (Iq)

0 kA

Rated short-circuit making capacity (Icm)

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

Rated short-time withstand current (Icw)

0.36 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

0.8 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0 W

Rated operational current for specified heat dissipation (In)

20 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

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.

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.

Resources

Catalogs

Product Range Catalog Switching and protecting motors

Switching and protecting motors - catalog

Declarations of conformity

DA-DC-00004851.pdf

DA-DC-00004787.pdf

Drawings

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

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

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

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

eCAD model

ETN.P-SOL20

Installation instructions

IL03402020Z

mCAD model

DA-CD-p_sol20

DA-CS-p_sol20



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

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