Specifications

Eaton 120915

Catalog Number: 120915

Eaton Moeller® series SOL20 Switch-disconnector, DC current, 20A, 2 strings MC4



General specifications

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

Catalog Number
120915

EAN
4015081187454

Product Length/Depth
234 mm

Product Height
130 mm

Product Width
100 mm

Product Weight
0.888 kg

Certifications
IEC/EN 60947-3
TÜV-certified

Catalog Notes
MC4 connector (Stäubli)

Powering Business Worldwide

Features & Functions

Actuator color

Black

Actuator type

Toggle

Design

Enclosed

Features

Isolating characteristics

Fitted with:

Voltage release optional

Locking facility

Lockable in the 0 (Off) position

Number of poles

Two-pole

Number of poles

Two-pole

General

Connection type

MC4, Outputs

MC4, Inputs

Degree of protection

NEMA Other

Degree of protection (front side)

IP65

Lifespan, electrical

1,500 Operations

Lifespan, mechanical

100,000 Operations

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

Ground mounting

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

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 operational voltage (Ue) at AC - min

1000 V

Rated operational voltage (Ue) at AC - max

1000 V

Rated uninterrupted current (Iu)

20 A

Resistance

8 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

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.

10.2.5 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

Characteristic curve

eaton-manual-motor-starters-sol30-fireman's-switch-3d-drawing-002.eps

eaton-manual-motor-starters-sol30-fireman's-switch-3d-drawing.eps

Declarations of conformity

DA-DC-00003914.pdf

DA-DC-00004206.pdf

Drawings

eaton-manual-motor-starters-switch-disconnector-dimensions-002.eps

eCAD model

ETN.SOL20_2MC4

Installation instructions

IL008036ZU

mCAD model

DA-CS-sol20_2mc4

DA-CD-sol20_2mc4

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