

Eaton 120937

Catalog Number: 120937

Eaton Moeller® series PKZ-SOL String circuit-breaker, DC current, 2p, 12A

General specifications



Product Name	Catalog Number
Eaton Moeller® series PKZ-SOL String circuit-breaker	120937
	Model Code
	PKZ-SOL12
EAN	Product Length/Depth
4015081187676	93 mm
Product Height	Product Width
76 mm	58 mm
Product Weight	Certifications
0.308 kg	IEC 60947-2
	EN 60947-2
	IEC/EN 60947 -2
	TÜV-certified

Features & Functions

Actuator type

Turn button

Design

Open

Features

Complete device with protection unit

Number of poles

Two-pole

General

Application

Open areas
Utility buildings

Degree of protection

IP20

Mounting Method

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

Overload release current setting - min

8 A

Overload release current setting - max

12 A

Product category

String circuit-breakers
Switchgear for photovoltaic
systems

Protection class

2

Suitable for

DIN rail (top hat rail) mounting

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 (flexible with ferrule)

2 x (1 - 6) mm², ferrule to DIN 46228

1 x (1 - 6) mm², ferrule to DIN 46228

Terminal capacity (solid/stranded AWG)

18 - 14

Electrical rating

Internal resistance

31 mΩ

Rated operational current (I_e)

12 A at AC-21A

Rated operational voltage (U_e) - min

900 V

Rated operational voltage (Ue) - max

900 V

Rated uninterrupted current (Iu)

12 A

Short-circuit current

5 - 9 A, Ics, Admissible short-circuit current for solar modules

Short-circuit release

6 x Ie, Electromagnetic trip block

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

4.5 W

Heat dissipation capacity Pdis

0 W

Heat dissipation per pole, current-dependent Pvid

1.5 W

Rated operational current for specified heat dissipation (In)

12 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

Catalogues

[Switching and protecting motors - catalog](#)

[Product Range Catalog Switching and protecting motors](#)

[Brochure - SOL30-Safety. How to use renewables in a meaningful and efficient manner](#)

Characteristic curve

[eaton-motorstarters-pkz-sol-string-circuit-breaker-characteristic-curve.eps](#)

Declarations of conformity

[DA-DC-00004069.pdf](#)

[DA-DC-00004230.pdf](#)

Drawings

[eaton-contactors-mounting-pkz-sol-string-circuit-breaker-dimensions.eps](#)

[eaton-manual-motor-starters-mounting-pkz-sol-string-circuit-breaker-dimensions.eps](#)

[eaton-manual-motor-starters-pkz-sol-string-circuit-breaker-dimensions.eps](#)

[eaton-manual-motor-starters-pkz-sol-string-circuit-breaker-3d-drawing.eps](#)

eCAD model

[ETN.120937.edz](#)

Installation instructions

[IL03402020Z](#)

mCAD model

[DA-CD-p_sol20](#)

[DA-CS-p_sol20](#)



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