Specifications

Eaton 6098927

Catalog Number: 6098927

Eaton DDC DC switch disconnector, 100 A, 2 pole, 2 N/O, 2 N/C, Without rotary handle and drive shaft, rear mounting



General specifications

Product Name
Eaton DDC Insulated enclosure

Catalog Number
6098927

EAN
8711426635791

Product Length/Depth
132 mm

Product Height
97 mm

Product Width
90 mm

Product Weight
1.5 kg

Certifications
IEC/EN 60947-3
IEC/EN 60947
VDE 0660
RoHS
IEC/EN 60204
CE

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Features & Functions

Actuator color

Other

Actuator type

Other

Features

Version as maintenance-/service switch

Version as main switch

Functions

Optional Stop Function

Number of poles

Two-pole

General

Accessories

Auxiliary contact fitted by user.

Degree of protection

NEMA Other

Degree of protection (front side)

IP20

Lifespan, mechanical

10,000 Operations

Mounting method

Rear mounting

Mounting position

As required

Overvoltage category

III

Pollution degree

3

Product Category

DC switch-disconnector

Main switch

Rated impulse withstand voltage (Uimp)

8000 V

Suitable for

Ground mounting

Climatic environmental conditions

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

55 °C

Ambient storage temperature - min

-30 °C

Ambient storage temperature - max

80 °C

Terminal capacities

Terminal capacity

6 - 35 mm², solid

6 - 25 mm², flexible

Stripping length (main cable)

15 mm

Tightening torque

3 Nm, Screw terminals

Electrical rating

Rated operational current (Ie) at DC-21B, 1000 V

100 A

Rated operational current (Ie) at DC-21B, 480 V

100 A

Rated operational current (Ie) at DC-21B, 600 V

100 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)

100 A

Uninterrupted current

Rated uninterrupted current Iu is specified for max. cross-section.

Rated insulation voltage (Ui)

1100 V

Short-circuit rating

Rated conditional short-circuit current (Iq)

0 kA

Rated short-circuit making capacity (Icm)

4.3 kAeff

Rated short-time withstand current (Icw)

3 kA

3 kA, Contacts, 1 second

Contacts

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

2

Number of auxiliary contacts (normally open contacts)

2

Design verification

Equipment heat dissipation, current-dependent Pvid

6 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

6 W

Rated operational current for specified heat dissipation (In)

100 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.

Resources

Catalogs

Eaton-industrial-switch-disconnectors-catalogue-ca008011en-en-gb.pdf

Product Range Catalog Industrial switch-disconnectors

Declarations of conformity

DA-DC-00003811.pdf

DA-DC-00004006.pdf

Drawings

eaton-general-mounting-p1-main-switch-symbol-002.eps

eCAD model

DA-CE-ETN.DDC-100_2-SK

Installation instructions

IL008021ZU

mCAD model

DA-CS-ddc_100_2_sk

DA-CD-ddc_100_2_sk

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.

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