Specifications

Eaton 6098946

Catalog Number: 6098946

Eaton DDC DC switch disconnector, 630 A, 2 pole, 2 N/O, 2 N/C, with grey knob, service distribution board mounting



General specifications

Product Name
Eaton DDC Insulated enclosure

Catalog Number
6098946

EAN
8711426747197

Product Length/Depth
240 mm

Product Height
129 mm

Product Width
127 mm

Product Weight
5 kg

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

Catalog Notes
Rated Short-time Withstand Current (Icw) for a time of 1 second

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Features & Functions

Actuator color

Gray

Actuator type

Long turning handle

Features

Version as maintenance-/service switch

Version as main switch

Fitted with:

Gray knob

Functions

Interlockable

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

Service distribution board mounting

Mounting position

As required

Overvoltage category

III

Pollution degree

3

Product Category

DC switch-disconnector

Main switch

Rated impulse withstand voltage (Uimp)

12000 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

2 x (40 x 5) mm² , Flat conductor connection with busbars

2 x 185 mm², solid

Screw size

M10, Terminal screw

Tightening torque

20 Nm, Screw terminals

Electrical rating

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

630 A

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

630 A

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

630 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)

630 A

Uninterrupted current

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

Rated insulation voltage (Ui)

1200 V

Short-circuit rating

Rated conditional short-circuit current (Iq)

0 kA

Rated short-circuit making capacity (Icm)

25 kAeff

Rated short-time withstand current (Icw)

15 kA, Contacts, 1 second

15 kA

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

97 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

97 W

Rated operational current for specified heat dissipation (In)

630 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

Product Range Catalog Industrial switch-disconnectors

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

Declarations of conformity

DA-DC-00004006.pdf

DA-DC-00003811.pdf

Drawings

eaton-rotary-switches-ddc-insulated-enclosure-dimensions-009.eps

eaton-general-rotary-switch-t0-step-switch-symbol-005.eps

eaton-rotary-switches-ddc-insulated-enclosure-3d-drawing-003.eps

eCAD model

DA-CE-ETN.DDC-630_2

Installation instructions

IL008023ZU

mCAD model

DA-CS-ddc_630_2

DA-CD-ddc_630_2

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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