Specifications

# Eaton 6098947

## Catalog Number: 6098947

Eaton DDC DC switch disconnector, 630 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**
6098947

**EAN**
8711426102316

**Product Length/Depth**
240 mm

**Product Height**
129 mm

**Product Width**
127 mm

**Product Weight**
5 kg

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

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## Features & Functions

**Actuator color**

Other

**Actuator type**

Other

**Features**

Version as main switch

Version as maintenance-/service 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)**

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

15 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

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

eCAD model

DA-CE-ETN.DDC-630_2-SK

Installation instructions

IL008023ZU

mCAD model

DA-CS-ddc_630_2_sk

DA-CD-ddc_630_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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