

# Eaton 184919

Catalog Number: 184919

Eaton DDC DC switch disconnecter, 100 A, 2 pole, with grey knob, surface mounting



General specifications

Product Name	Catalog Number
Eaton DDC Insulated enclosure	184919
EAN	Product Length/Depth
4015081798186	280 mm
Product Height	Product Width
160 mm	200 mm
Product Weight	Compliances
3.05 kg	CE

## Features & Functions

### Actuator color

Gray

### Actuator type

Door coupling rotary drive

### Features

Version as maintenance-/service switch

Version as main switch

### Fitted with:

Gray knob

### Functions

Interlockable

### Locking mechanism

Cylinder lock

### Number of poles

Two-pole

## General

### Accessories

Auxiliary contact fitted by user.

### Degree of protection

NEMA 12

### Degree of protection (front side)

IP65

### Lifespan, mechanical

10,000 Operations

### Mounting method

Surface 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

6 - 25 mm<sup>2</sup>, flexible

6 - 35 mm<sup>2</sup>, solid

### 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

## Design verification

Equipment heat dissipation, current-dependent Pvid  
6 W

Heat dissipation capacity Pdis  
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.

## 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, Contacts, 1 second  
3 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

## 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-dmm-switch-disconnector-dimensions-002.eps](#)

#### eCAD model

[DA-CE-ETN.DDC-100\\_2\\_I5\\_P-G](#)

#### Installation instructions

[IL008028ZU](#)

#### 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

UV resistance only in connection with protective shield.

#### 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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