Specifications

Eaton 184916



Catalog Number: 184916

Eaton DDC DC switch disconnector, 80 A, 2 pole, With red rotary handle and yellow locking ring, surface mounting

General specifications

Product Name	**Catalog Number**
Eaton DDC Insulated enclosure	184916
EAN	**Product Length/Depth**
4015081798155	280 mm
Product Height	**Product Width**
160 mm	200 mm
Product Weight	**Compliances**
3.05 kg	CE

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Features & Functions

Actuator color
Red

Actuator type
Door coupling rotary drive

Features
Version as main switch
Version as maintenance-/service switch
Version as emergency stop installation

Fitted with:
Red rotary handle and yellow locking ring

Functions
Interlockable
Emergency switching off function

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 mm², flexible
6 - 35 mm², solid

Stripping length (main cable)
15 mm

Tightening torque
3 Nm, Screw terminals

Electrical rating

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

80 A

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

80 A

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

80 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)

80 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, 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

Design verification

Equipment heat dissipation, current-dependent Pvid

4 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

4 W

Rated operational current for specified heat dissipation (In)

80 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-rotary-switches-dmm-switch-disconnector-dimensions-002.eps

eCAD model

DA-CE-ETN.DDC-80_2_I5_P-R

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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