

ETNY8-6098923 DDC-80A2P

Catalog Number: ETNY8-6098923 DDC-80A2P

Maxima DDC DC switch disconnecter, 80 A, 2 pole, 1 N/O, 1 N/C, with grey knob, service distribution board mounting

General specifications



Product Name	Maxima DDC Insulated enclosure	Catalog Number	ETNY8-6098923 DDC-80A2P
EAN	8711426214194	Product Length/Depth	132 mm
Product Height	97 mm	Product Width	90 mm
Product Weight	1.5 kg	Certifications	CE IEC/EN 60204 VDE 0660 IEC/EN 60947 IEC/EN 60947-3 RoHS
Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second	Model Code	DDC-80/2

Features & Functions

Actuator color

Gray

Actuator type

Long turning handle

Features

Version as main switch

Version as maintenance-/service 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)

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 - 25 mm², flexible

6 - 35 mm², solid

Stripping length (main cable)

15 mm

Tightening torque

3 Nm, Screw terminals

Electrical rating

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

80 A

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

80 A

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

80 A

Rated operational power at AC-23A, 400 V, 50 Hz

0 kW

Rated operational voltage (U_e) at AC - max

1000 V

Rated uninterrupted current (I_u)

80 A

Uninterrupted current

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

Rated insulation voltage (U_i)

1100 V

Short-circuit rating

Rated conditional short-circuit current (I_q)

0 kA

Rated short-circuit making capacity (I_{cm})

4.3 kA_{eff}

Rated short-time withstand current (I_{cw})

3 kA, Contacts, 1 second

3 kA

Contacts

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

1

Number of auxiliary contacts (normally open contacts)

1

Design verification

Equipment heat dissipation, current-dependent P_{vid}

4 W

Heat dissipation capacity P_{diss}

0 W

Heat dissipation per pole, current-dependent P_{vid}

4 W

Rated operational current for specified heat dissipation (I_n)

80 A

Static heat dissipation, non-current-dependent P_{vs}

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.

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

Resources

Catalogues

[Maxima-industrial-switch-disconnectors-catalogue-ca008011en-en-gb.pdf](#)

Product Range Catalog Industrial switch-disconnectors

Certification reports

[DA-DC-00003811.pdf](#)

[DA-DC-00004006.pdf](#)

Drawings

[Maxima-rotary-switches-ddc-insulated-enclosure-dimensions-007.eps](#)

[Maxima-general-rotary-switch-t0-step-switch-symbol-005.eps](#)

[Maxima-rotary-switches-ddc-insulated-enclosure-3d-drawing.eps](#)

eCAD model

[DA-CE-ETN.DDC-80_2](#)

Installation instructions

[IL008021ZU](#)

mCAD model

[DA-CD-ddc_80_2](#)

[DA-CS-ddc_80_2](#)

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.