

# ETNY8-6098933 DDC-160A2P

Catalog Number: ETNY8-6098933 DDC-160A2P

Maxima DDC DC switch disconnecter, 160 A, 2 pole, 2 N/O, 2 N/C, with grey knob, service distribution board mounting

## General specifications



<b>Product Name</b>	Maxima DDC Insulated enclosure	<b>Catalog Number</b>	ETNY8-6098933 DDC-160A2P
<b>Model Code</b>	DDC-160/2	<b>EAN</b>	8711426213043
<b>Product Length/Depth</b>	160 mm	<b>Product Height</b>	98 mm
<b>Product Width</b>	83 mm	<b>Product Weight</b>	2 kg
<b>Certifications</b>	IEC/EN 60204 IEC/EN 60947 RoHS CE VDE 0660 IEC/EN 60947-3	<b>Catalog Notes</b>	Rated Short-time Withstand Current (Icw) for a time of 1 second

## 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)

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

1 x 120 mm<sup>2</sup>, solid

1 x (30 x 3) mm<sup>2</sup>, Flat conductor connection with busbars

2 x (20 x 3) mm<sup>2</sup>, Flat conductor connection with busbars

### Screw size

M8, Terminal screw

### Tightening torque

14 Nm, Screw terminals

## Electrical rating

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

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

Rated operational current ( $I_e$ ) at DC-21B, 600 V  
160 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 ( $I_u$ )  
160 A

### Uninterrupted current

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

Rated insulation voltage ( $U_i$ )  
1200 V

## Short-circuit rating

Rated conditional short-circuit current ( $I_q$ )  
0 kA

Rated short-circuit making capacity ( $I_{cm}$ )  
6 kA<sub>eff</sub>

Rated short-time withstand current ( $I_{cw}$ )  
4 kA, Contacts, 1 second  
4 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  $P_{vid}$   
13 W

Heat dissipation capacity  $P_{diss}$   
0 W

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

Rated operational current for specified heat dissipation ( $I_n$ )  
160 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

Product Range Catalog Industrial switch-disconnectors

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

### Certification reports

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

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

### Drawings

[Maxima-rotary-switches-ddc-insulated-enclosure-dimensions-008.eps](#)

[Maxima-rotary-switches-ddc-insulated-enclosure-3d-drawing-002.eps](#)

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

### eCAD model

[DA-CE-ETN.DDC-160\\_2](#)

### Installation instructions

[IL008022ZU](#)

### mCAD model

[DA-CS-ddc\\_160\\_2](#)

[DA-CD-ddc\\_160\\_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.