Specifications

# Eaton 1314004

## Catalog Number: 1314004

Eaton DCM Switch-disconnector, DCM, 63 A, 3P + N (solid), With black rotary handle and drive shaft, Vertical connection




### General specifications

**Product Name**
Eaton DCM Switch-disconnector

**Catalog Number**
1314004

**EAN**
8711426880665

**Product Length/Depth**
146 mm

**Product Height**
74 mm

**Product Width**
84 mm

**Product Weight**
0.48 kg

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

Powering Business Worldwide

## Product specifications

### Product Category

Main switch

Switch-disconnector

### Features

Version as maintenance-/service switch

Version as main switch

### Actuator color

Black

### 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.

### 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

## Resources

### Catalogs

Product Range Catalog Industrial switch-disconnectors

Eaton-industrial-switch-disconnectors-catalogue-ca008011en-en-gb.pdf

### Declarations of conformity

DA-DC-00004905.pdf

DA-DC-00004873.pdf

### Drawings

eaton-rotary-switches-dcm-switch-disconnector-dimensions.eps

eaton-general-switch-t0-main-switch-symbol.eps

### eCAD model

DA-CE-ETN.DCM-63_1

### Installation instructions

IL008025ZU

### Wiring diagrams

eaton-rotary-switches-dmm-switch-disconnector-wiring-diagram-002.eps

eaton-rotary-switches-main-switch-dmm-switch-disconnector-wiring-diagram.eps

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.

### Fitted with:

Black rotary handle and drive shaft

### Pollution degree

3

### Rated impulse withstand voltage (Uimp)

6000 V

### Rated permanent current at AC-21, 400 V

63 A

### Rated permanent current at AC-23, 400 V

63 A

### Rated uninterrupted current (Iu)

63 A

### Static heat dissipation, non-current-dependent Pvs

0 W

Stripping length (main cable)

14 mm

Switching power at 400 V

0 kW

Device construction

Built-in device fixed built-in technique

Rated short-time withstand current (Icw)

1.5 kA

1,5 kA, Contacts, 1 second

Electrical connection type of main circuit

Screw connection

Mounting position

As required

Actuator type

Short thumb-grip

Ambient operating temperature - max

55 °C

Ambient operating temperature - min

-25 °C

Ambient storage temperature - max

80 °C

Ambient storage temperature - min

-30 °C

Equipment heat dissipation, current-dependent Pvid

1.5 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

3.9 W

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

0

Rated conditional short-circuit current (Iq)

50 kA

Overvoltage category

III

Breaking current

7 kA

Degree of protection (front side)

IP20

Number of poles

Three-pole + N

Connection type

Vertical

Mounting method

Surface mounting

Degree of protection

NEMA Other

Suitable for

Ground mounting

Distribution board installation

Locking facility

Lockable in the 0 (Off) position

Number of switches

1

Lifespan, mechanical

10,000 Operations

Let-through energy

Max. 12 kA²s

Terminal capacity

2.5 - 16 mm², solid

1.5 - 25 mm², flexible

Safety parameter (EN ISO 13849-1)

B10d values as per EN ISO 13849-1, table C.1

Number of auxiliary contacts (normally open contacts)

0

Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)

504 A

Rated insulation voltage (Ui)

690 V

Rated operating voltage (Ue) - max

415 V

Rated operating voltage (Ue) - min

415 V

Rated operational voltage (Ue) at AC - max

415 V

Rated operational current (Ie) at AC-21, 400 V, 415 V

63 A

Rated short-circuit making capacity (Icm)

1.4 kAeff

Short-circuit protection rating

50, Fuse, Contacts

Rated operational current (Ie) at AC-22, 380 V, 400 V, 415 V

63 A

Rated operational current (Ie) at AC-23A, 400 V, 415 V

63 A

Rated operational current for specified heat dissipation (In)

63 A

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

63 kW

Rated operational power at AC-3, 380/400 V, 50 Hz

0 kW

Uninterrupted current

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

Width in number of modular spacings

4

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