Specifications

Eaton 1314107

Catalog Number: 1314107

Eaton DCM Switch-disconnector, DCM, 40 A, 3P + N (solid), With blue rotary handle and drive shaft, Vertical connection



General specifications

Product Name
Eaton DCM Switch-disconnector

Catalog Number
1314107

EAN
8711426543874

Product Length/Depth
150 mm

Product Height
80 mm

Product Width
90 mm

Product Weight
0.37 kg

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

Powering Business Worldwide

Product specifications

Product Category

Main switch

Switch-disconnector

Actuator color

Other

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 evaluated.

10.2.7 Inscriptions

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-00004873.pdf

DA-DC-00004905.pdf

Drawings

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

eaton-general-mounting-p1-main-switch-symbol.eps

eCAD model

DA-CE-ETN.DCM-40_1_CM

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

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:

Blue rotary handle and drive shaft

Pollution degree

3

Rated impulse withstand voltage (Uimp)

6000 V

Rated permanent current at AC-21, 400 V

40 A

Rated permanent current at AC-23, 400 V

40 A

Rated uninterrupted current (Iu)

40 A

Static heat dissipation, non-current-dependent Pvs

0 W

Stripping length (main cable)

14 mm

Switching power at 400 V

20 kW

Device construction

Built-in device fixed built-in technique

Rated short-time withstand current (Icw)

1 kA, Contacts, 1 second

1 kA

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

0 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

3 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

Flush mounting

Degree of protection

NEMA Other

Suitable for

Ground mounting

Distribution board installation

Intermediate mounting

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)

320 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

40 A

Rated short-circuit making capacity (Icm)

2.2 kAeff

Short-circuit protection rating

50, Fuse, Contacts

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

40 A

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

40 A

Rated operational current for specified heat dissipation (In)

40 A

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

20 kW

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

0 kW

Tightening torque

3 Nm, Screw terminals

Uninterrupted current

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

Width in number of modular spacings

4

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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