Specifications

Eaton 6094971

Catalog Number: 6094971

Eaton DMV Switch-disconnector, DMV, 400 A, 4 pole, Emergency switching off function, With red rotary handle and yellow locking ring, With metal shaft for a control panel depth of 400 mm, 11 mm connection bore



General specifications

Product Name
Eaton DMV Switch-disconnector

Catalog Number
6094971

EAN
8711426316829

Product Length/Depth
63 mm

Product Height
146 mm

Product Width
205 mm

Product Weight
1.7 kg

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

Catalog Notes
Current for a time of 0.3 seconds

Powering Business Worldwide

Product specifications

Product Category

Main switch

Switch-disconnector

Features

Version as emergency stop installation

Version as main switch

Actuator color

Red

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

Resources

Catalogs

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

Product Range Catalog Industrial switch-disconnectors

Declarations of conformity

DA-DC-00004929.pdf

DA-DC-00004902.pdf

Drawings

eaton-rotary-switches-dmv-switch-disconnector-dimensions-016.eps

eaton-general-mounting-p1-main-switch-symbol-002.eps

eaton-rotary-switches-t0-main-switch-symbol.eps

eCAD model

DA-CE-ETN.DMV-400_4_M4_P-R

Installation instructions

IL008008ZU

mCAD model

DA-CS-dmv400n_1814413

DA-CD-dmv400n_1814413

Wiring diagrams

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

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.

Fitted with:

Metal shaft for a control panel depth of 400 mm
Red rotary handle and yellow locking ring

Pollution degree

3

Rated impulse withstand voltage (Uimp)

8000 V

Rated permanent current at AC-21, 400 V

400 A

Rated permanent current at AC-23, 400 V

333 A

Rated uninterrupted current (Iu)

400 A

Static heat dissipation, non-current-dependent Pvs

0 W

Switching angle

90 °

Switching power at 400 V

400 kW

Accessories

Auxiliary contact fitted by user.

Device construction

Built-in device fixed built-in technique

Rated short-time withstand current (Icw)

12 kA, Contacts, 1 second

12 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

11.5 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

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

100 kA at In = 250

Overvoltage category

III

Breaking current

40 kA (at In = 500)

33 kA (at In = 250)

Degree of protection (front side)

IP65

Number of poles

Four-pole

Connection type

11 mm connection bore

Mounting method

Rear mounting

Degree of protection

NEMA 12

Suitable for

Intermediate mounting

Ground mounting

Locking facility

Lockable in the 0 (Off) position

Functions

Interlockable

Emergency switching off function

Number of switches

1

Screw size

M10 x 20, Terminal screw

Lifespan, mechanical

10,000 Operations

Locking mechanism

Padlocking feature SVC

Let-through energy

Max. 380 kA²s (at In = 250)

Max. 1700 kA²s (at In = 500)

Terminal capacity

240 mm², Flat conductor connection with busbars

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)

2664 A

Rated breaking capacity at 500 V (cos phi to IEC 60947-3)

2032 A

Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)

1120 A

Rated insulation voltage (Ui)

1000 V

Rated operating voltage (Ue) - max

690 V

Rated operating voltage (Ue) - min

690 V

Rated operational voltage (Ue) at AC - max

690 V

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

400 A

Short-circuit protection rating

500/250, Fuse, Contacts

Rated operational current (Ie) at AC-21, 500 V

400 A

Rated operational current (Ie) at AC-21, 690 V

400 A

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

400 A

Rated operational current (Ie) at AC-22, 500 V

400 A

Rated operational current (Ie) at AC-22, 690 V

315 A

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

333 A

Rated operational current (Ie) at AC-23A, 500 V

254 A

Rated operational current (Ie) at AC-23A, 690 V

140 A

Rated operational current for specified heat dissipation (In)

400 A

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

400 kW

Rated operational power at AC-23A, 500 V, 50 Hz

180 kW

Rated operational power at AC-23A, 690 V, 50 Hz

132 kW

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

0 kW

Tightening torque

28 Nm, Screw terminals

Uninterrupted current

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

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

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