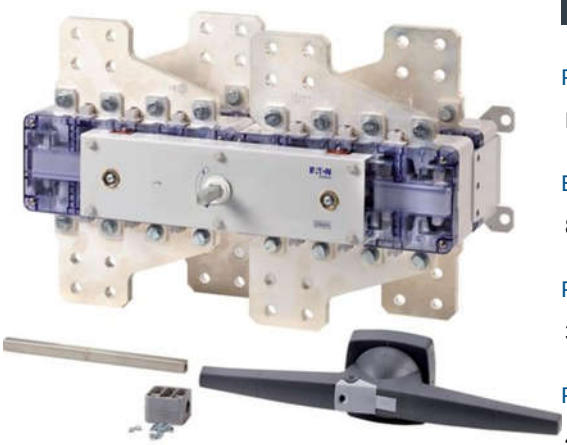
Specifications

Eaton 6093242



Catalog Number: 6093242

Eaton DMV Switch-disconnector, 690 V, 4-pole, Long turning handle, NEMA Other

General specifications

Product Name
Eaton DMV Switch-disconnector

Catalog Number
6093242

EAN
8711426424739

Product Length/Depth
300 mm

Product Height
377 mm

Product Width
630 mm

Product Weight
42 kg

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

Powering Business Worldwide

Product specifications

Product Category

Main switch

Switch-disconnector

Features

Version as main switch

Actuator color

Gray

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.

Resources

Catalogs

Product Range Catalog Industrial switch-disconnectors

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

Declarations of conformity

DA-DC-00004929.pdf

DA-DC-00004902.pdf

Drawings

eaton-rotary-switches-dmv-switch-disconnector-dimensions-002.eps

eaton-rotary-switches-dmv-switch-disconnector-dimensions-003.eps

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

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

eaton-rotary-switches-dmv-switch-disconnector-3d-drawing-002.eps

eCAD model

DA-CE-ETN.DMV-2500_4_M6_2HI11_K6-PG

Installation instructions

IL008014ZU

mCAD model

DA-CD-dmv_2500_4_m6_2hi11_k6_pg

DA-CS-dmv_2500_4_m6_2hi11_k6_pg

Wiring diagrams

1150SWI-46

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

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:

Gray rotary handle and drive shaft

Pollution degree

3

Rated impulse withstand voltage (Uimp)

12000 V

Rated permanent current at AC-21, 400 V

2500 A

Rated permanent current at AC-23, 400 V

250 A

Rated uninterrupted current (Iu)

2500 A

Static heat dissipation, non-current-dependent Pvs

0 W

Switching power at 400 V

0 kW

Accessories

Connection materials included with supplied equipment.

Device construction

Built-in device fixed built-in technique

Rated short-time withstand current (Icw)

65 kA

65 kA, Contacts, 1 second

Electrical connection type of main circuit

Screw connection

Mounting position

As required

Actuator type

Long turning handle

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

68.5 W

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

1

Rated conditional short-circuit current (Iq)

0 kA

Overvoltage category

III

Degree of protection (front side)

IP20

Number of poles

Four-pole

Mounting method

Surface mounting

Degree of protection

NEMA Other

Suitable for

Intermediate mounting

Ground mounting

Functions

Interlockable

Number of switches

4

Screw size

M12 x 50 (2 x), Terminal screw

Lifespan, mechanical

5,000 Operations

Terminal capacity

3000 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)

1

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

10000 A

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

7272 A

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

5040 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

2500 A

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

2500 A

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

2500 A

Rated operational current for specified heat dissipation (In)

2500 A

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

1400 kW

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

0 kW

Tightening torque

40 Nm, Screw terminals

Uninterrupted current

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

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