Specifications

Eaton 6094970

Catalog Number: 6094970

Eaton DMV Switch-disconnector, DMV, 250 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, 9 mm connection hole



General specifications

Product Name
Eaton DMV Switch-disconnector

Catalog Number
6094970

EAN
8711426207950

Product Length/Depth
63 mm

Product Height
135 mm

Product Width
205 mm

Product Weight
1.6 kg

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

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

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-013.eps

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

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

eCAD model

ETN.DMV-250_4_M4_P-R

Installation instructions

IL008008ZU

mCAD model

DA-CD-dmv250n_1814410

DA-CS-dmv250n_1814410

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:

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

Pollution degree

3

Rated impulse withstand voltage (Uimp)

8000 V

Rated permanent current at AC-21, 400 V

250 A

Rated permanent current at AC-23, 400 V

250 A

Rated uninterrupted current (Iu)

250 A

Static heat dissipation, non-current-dependent Pvs

0 W

Switching angle

90 °

Switching power at 400 V

250 kW

Accessories

Auxiliary contact fitted by user.

Device construction

Built-in device fixed built-in technique

Rated short-time withstand current (Icw)

12 kA

12 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

4.5 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

3.75 W

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

0

Rated conditional short-circuit current (Iq)

100 kA at In = 250

50 kA

Overvoltage category

III

Breaking current

33 kA (at In = 250)

40 kA (at In = 500)

Degree of protection (front side)

IP65

Number of poles

Four-pole

Connection type

9 mm connection hole

Mounting method

Rear mounting

Degree of protection

NEMA 12

Suitable for

Intermediate mounting

Ground mounting

Locking facility

Lockable in the 0 (Off) position

Functions

Emergency switching off function

Interlockable

Number of switches

1

Screw size

M8 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

120 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)

2000 A

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

1760 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

250 A

Short-circuit protection rating

500/250, Fuse, Contacts

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

250 A

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

250 A

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

250 A

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

250 A

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

250 A

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

250 A

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

220 A

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

140 A

Rated operational current for specified heat dissipation (In)

250 A

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

250 kW

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

160 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

14 Nm, Screw terminals

Uninterrupted current

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

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