Specifications

Eaton 197335



Catalog Number: 197335

Eaton DMVS Switch-disconnector, DMV, 160 A, 4 pole, Emergency switching off function, With red rotary handle and yellow locking ring, in steel enclosure, 9 mm connection hole

General specifications

Product Name
Eaton DMVS Enclosed switch-disconnector

Catalog Number
197335

EAN
4015081938728

Product Length/Depth
225 mm

Product Height
500 mm

Product Width
400 mm

Product Weight
12.5 kg

Certifications
CE
VDE 0660
IEC/EN 60947-3
IEC/EN 60204
IEC/EN 60947

Powering Business Worldwide

Features & Functions

Features

Version as safety switch
Version as main switch
Version as maintenance-/service switch
Version as emergency stop installation

Fitted with:

Red rotary handle and yellow locking ring

Functions

Emergency switching off function
Interlockable

Locking facility

Lockable in the 0 (Off) position

Number of poles

Four-pole

General

Accessories

Auxiliary contact fitted by user.
Connection materials included with supplied equipment.

Connection type

9 mm connection hole

Degree of protection

NEMA 12

Degree of protection (front side)

IP65

Lifespan, mechanical

10,000 Operations

Mounting method

Surface mounting

Mounting position

As required

Overvoltage category

III

Pollution degree

3

Product Category

Main switch
Switch-disconnector

Product Category

Main switch
Switch-disconnector

Rated impulse withstand voltage (Uimp)

6000 V

Safety parameter (EN ISO 13849-1)

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

Suitable for

Ground mounting

Switching angle

90 °

Climatic environmental conditions

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

55 °C

Ambient storage temperature - min

-30 °C

Ambient storage temperature - max

80 °C

Terminal capacities

Terminal capacity

120 mm², Flat conductor connection with busbars

Screw size

M8 x 20, Terminal screw

Tightening torque

14 Nm, Screw terminals

Electrical rating

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

1280 A

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

1248 A

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

336 A

Rated insulation voltage (Ui)

1000 V

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

160 A

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

160 A

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

160 A

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

160 A

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

160 A

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

160 A

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

160 A

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

66 A

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

42 A

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

90 kW

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

45 kW

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

37 kW

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

0 kW

Rated operational voltage (Ue) at AC - max

690 V

Rated uninterrupted current (Iu)

160 A

Uninterrupted current

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

Short-circuit rating

Breaking current

40 kA (at In = 500)

33 kA (at In = 250)

Let-through energy

Max. 380 kA²s (at In = 250)

Max. 1700 kA²s (at In = 500)

Rated conditional short-circuit current (Iq)

100 kA

Rated short-time withstand current (Icw)

12 kA, Contacts, 1 second

0 kA

Short-circuit protection rating

125, Fuse, Contacts

Contacts

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

0

Number of auxiliary contacts (normally open contacts)

0

Actuator

Actuator color

Red

Actuator type

Long turning handle

Design verification

Equipment heat dissipation, current-dependent Pvid

1.8 W

Heat dissipation per pole, current-dependent Pvid

8 W

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

UV resistance only in connection with protective shield.

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.

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.

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

Resources

Brochures

Steel enclosure brochure

Catalogs

P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN

Declarations of conformity

DA-DC-00004902.pdf

DA-DC-00004929.pdf

Drawings

eaton-rotary-switches-dmv-switch-disconnector-dimensions-004.eps

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

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

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

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

eCAD model

DA-CE-ETN.DMVS-160_4_SE5_P-R

Installation instructions

IL008058ZU

Installation videos

Eaton Bussmann Switch Disconnect

Wiring diagrams

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

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.

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