Tekniset tiedot

Eaton 199544



Catalog Number: 199544

Eaton Main switch, 40 A, surface mounting, 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position

General specifications

Product Name
Eaton J-Range enclosed switch-disconnector

Catalog Number
199544

EL Number
3619101

EAN
5027590552110

Product Length/Depth
115 mm

Product Height
180 mm

Product Width
100 mm

Product Weight
0.447 kg

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

Catalog Notes
Rated Short-time Withstand Current (Icw) for a time of 1 second

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Ominaisuudet & toiminnot

Features

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

Fitted with:

Red rotary handle and yellow locking ring
Assembly sheet screen
Push-through cable entry diaphragm

Functions

Interlockable
Emergency switching off function

Locking facility

Lockable in the 0 (Off) position

Number of poles

Three-pole

General

Degree of protection

NEMA 12

Degree of protection (front side)

IP65

Lifespan, mechanical

300,000 Operations

Mounting method

Surface mounting

Mounting position

As required

Operating frequency

1200 Operations/h

Overvoltage category

III

Pollution degree

3

Product Category

Main switch

Rated impulse withstand voltage (Uimp)

6000 V AC

Safe isolation

440 V AC, Between the contacts, According to EN 61140

Safety parameter (EN ISO 13849-1)

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

Shock resistance

15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms

Suitable for

Ground mounting

Climatic environmental conditions

Ambient operating temperature (enclosed) - min

-25 °C

Ambient operating temperature (enclosed) - max

40 °C

Terminal capacities

Terminal capacity

2 x (1 - 4) mm², flexible with ferrules to DIN 46228
1 x (1.5 - 10) mm², solid or stranded
1 x (1 - 4) mm², flexible with ferrules to DIN 46228
2 x (1.5 - 6) mm², solid or stranded

Climatic proofing

Damp heat, constant, to IEC 60068-2-78

Damp heat, cyclic, to IEC 60068-2-30

Screw size

M4, Terminal screw

Tightening torque

1.6 Nm, Screw terminals

Electrical rating

Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)

260 A

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

300 A

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

290 A

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

250 A

Rated operational current (Ie) at AC-21, 440 V

40 A

Rated operational current (Ie) at DC-1, load-break switches l/r = 1 ms

40 A

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

0 kW

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

16 kW

Rated operational voltage (Ue) at AC - max

690 V

Rated uninterrupted current (Iu)

40 A

Uninterrupted current

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

Short-circuit rating

Rated conditional short-circuit current (Iq)

80 kA

Rated short-time withstand current (Icw)

0.64 kA

640 A, Contacts, 1 second

Short-circuit protection rating

50 A gG/gL, Fuse, Contacts

Switching capacity

Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)

320 A

Voltage per contact pair in series

60 V

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

Door coupling rotary drive

Design verification

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.

Lisämateriaalit

3D-mallit

J-RANGE_RD.STEP

Asennusohjeet

IL008060ZU

Declarations of conformity

eCAD model

ETN.199544.edz

Esitteet

Multimedia

Tekniset tuotelehdet

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 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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