Specifications

Eaton 1319916

Catalog Number: 1319916

Eaton QM Changeover switch, QM, 100 A, 2 x 3 pole + N (switched), without rotary handle, With drive shaft, 6 mm square



General specifications

Product Name
Eaton QM Changeover switch

Catalog Number
1319916

EAN
8711426233317

Product Length/Depth
19.5 mm

Product Height
14.2 mm

Product Width
10.7 mm

Product Weight
1.1 kg

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

Powering Business Worldwide

Product specifications

Product Category

Changeover switches

Actuator color

Other

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.

10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of assemblies

Resources

Catalogs

Product Range Catalog Industrial switch-disconnectors

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

Declarations of conformity

DA-DC-00004928.pdf

DA-DC-00004901.pdf

Drawings

eaton-rotary-switches-qm-changeover-switch-dimensions-004.eps

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

eCAD model

DA-CE-ETN.QM100_3N

Installation instructions

IL008038ZU

Wiring diagrams

eaton-rotary-switches-qm-changeover-switch-wiring-diagram-002.eps

1150SWI-42

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:

Drive shaft

Pollution degree

3

Rated impulse withstand voltage (Uimp)

6000 V

Rated permanent current at AC-21, 400 V

100 A

Rated uninterrupted current (Iu)

100 A

Static heat dissipation, non-current-dependent Pvs

0 W

Stripping length (main cable)

14 mm

Accessories

Auxiliary contact fitted by user.

Device construction

Built-in device fixed built-in technique

Rated short-time withstand current (Icw)

1.85 kA

Electrical connection type of main circuit

Screw connection

Mounting position

As required

Actuator type

Other

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

8 W

Number of auxiliary contacts (normally closed contacts)

0

Rated conditional short-circuit current (Iq)

15 kA

Overvoltage category

III

Degree of protection (front side)

IP20

Number of poles

Four-pole

Mounting method

Rear mounting

Top-hat rail mounting

Degree of protection

NEMA Other

Functions

Optional Stop Function

Number of switches

2

Terminal capacity

1 x (10 - 50) mm², solid

1 x (10 - 35) mm², flexible

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 insulation voltage (Ui)

690 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 for specified heat dissipation (In)

100 A

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

37 kW

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

30 kW

Tightening torque

3 Nm, Screw terminals

Uninterrupted current

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



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