Specifications

Eaton 183052



Catalog Number: 183052

Eaton xEffect - XNH circuit protection. NH fuse-switch 3p box terminal 35 - 150 mm², busbar 60 mm, NH1

General specifications

Product Name
Eaton xEffect XNH device for busbar system

Catalog Number
183052

EAN
4015081779796

Product Length/Depth
306 mm

Product Height
142 mm

Product Width
184 mm

Product Weight
2.3 kg

Compliances
RoHS conform

Certifications
IEC/EN 60947-3

Powering Business Worldwide

Product specifications

Type

Basic device

Special features

Permanent operation (rated operating mode)
Current paths of electrolytic copper, silver-plated
Cable connection optionally at the top or bottom

Features

Standard sealable
Halogen free

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

Resources

Brochures

eaton-xeffect-xnh-fuse-switch-disconnector-brochure-br019002en-en-us.pdf

Catalogs

eaton-panel-building-accessories-catalog-ca008008en-en-us.pdf

Certification reports

eaton-xeffect-xnh-fuse-switch-disconnector-declaration-of-conformity-en-us.pdf

Drawings

eaton-circuit-breaker-xeffect-xeffect-xnh-circuit-protection-dimensions-012.eps

eCAD model

ETN.XNH1-S250-BT.edz

Installation instructions

IL0131112ZU

mCAD model

eaton-XNH1-S250-drawing.dwg

eaton-XNH1-S250-3d-model.stp

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

Is the panel builder's responsibility.

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

Ui = 800 V AC

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.

Frequency rating

40 Hz - 60 Hz

Pollution degree

3

Creepage resistance

CTI 600

Equipment heat dissipation, current-dependent

22 W

Rated uninterrupted current (Iu)

250 A

Total heat dissipation without fuses at ith

22 W

Ambient operating temperature details

Ambient temperature range: -25 °C - 55 °C

Voltage rating at AC

400 V (AC-23B)
500 V (AC-22B)
690 V (AC-21B)

Voltage rating at DC

250 V (DC-22B)
440 V (DC-21B)

Conditioned rated short-circuit current Iq

120 kA

Number of poles

Three-pole

Rated operation power at AC-23, 400 V

0 kW

Size

NH1 fuse

Rated impulse withstand voltage (Uimp)

8 kV

Color

Gray

Connection type

Box terminal

Degree of protection

IP20 (operating status, XNH installed)
IP2XC (contact protection, XNH installed)
IP10 (handle cover open, XNH installed)

Rated short-time withstand current (Icw)

6 kA

Direction of incoming supply

As required (FLEX System)

Electrical connection type of main circuit

Frame clamp

Activation type

Dependent manual activation

Actuator position

Front side

Actuator type

Cover grip

Voltage test

Yes, sliding inspection windows

Heat dissipation at 80% without fuses

14.1 W

Heat dissipation per pole, current-dependent

7.3 W

Mounting position

Vertical or horizontal

Suitable for

Busbar mounting

Rated conditional short-circuit current (Iq)

120 kA

Overvoltage category

III

Suitable for fuses

NH1

Material

Polyamide

Cable entry type

Other

Frequency rating of contacts

40 Hz - 60 Hz

Mounting method

Busbars of 60 mm

Rated operation current (Ie)

250 A

Locking facility

Yes, optional

Flammability characteristics (UL)

Self-extinguishing (UL 94)

Degree of protection (front side)

Other

Heat deflection temperature

125 °C

Lifespan, electrical

200 operations

Lifespan, mechanical

1400 operations

Terminal capacity (copper busbar)

Max. 37 mm cable lug width at flange connection

30 mm x 10 mm

Bolt diameter at flange connection: M10

Terminal capacity (copper band)

6 mm x 16 mm x 0.8 mm (6x) at box terminal

Terminal capacity (stranded cable)

25 mm² - 150 mm² at box terminal

35 mm² - 150 mm² at box terminal

70 mm² - 95 mm² (2x) at double clamp-type terminal

10 mm² -150 mm² at clamp-type terminal

Rated operational current

250 A (DC-21B)

250 A (DC-22B)

250 A (AC-21B)

250 A (AC-22B)

250 A (AC-23B)

Operating altitude without derating - max

2000 mm

Permitted power loss per fuse link - max

23 W

Power rating at AC-23, 400 V

0 kW

Rated insulation voltage (Ui)

800 VAC

Rated operating voltage (Ue) at AC - max

690 V

Rated operational current for specified heat dissipation (In)

250 A

Rated conditional short-circuit rating

120 kA (500 V)

100 kA (690 V)

Terminal capacity (copper strip)

16 mm x 0.8 mm (10x) at box terminal



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