

Eaton 183043

Catalog Number: 183043

Eaton xEffect - XNH circuit protection. NH fuse-switch 3p flange connection M10 max. 150 mm², mounting plate, NH1



General specifications

Product Name	Catalog Number
Eaton xEffect XNH device for mounting plate	183043
	Model Code
	XNH1-A250
EAN	Product Length/Depth
4015081779703	306 mm
Product Height	Product Width
117 mm	184 mm
Product Weight	Compliances
1.991 kg	RoHS conform
Certifications	
IEC/EN 60947-3	

Product specifications

[Rated operational current for specified heat dissipation \(In\)](#)
250 A

[10.11 Short-circuit rating](#)

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

[Creepage resistance](#)

CTI 600

[Terminal capacity \(copper band\)](#)

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

[Actuator position](#)

Front side

[10.4 Clearances and creepage distances](#)

Is the panel builder's responsibility.

[10.12 Electromagnetic compatibility](#)

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

[Mounting method](#)

DIN rail

Mounting plate

[Suitable for fuses](#)

NH1

[10.2.5 Lifting](#)

Does not apply, since the entire switchgear needs to be evaluated.

[Locking facility](#)

Yes, optional

[Terminal capacity \(copper strip\)](#)

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

[10.2.3.1 Verification of thermal stability of enclosures](#)

Meets the product standard's requirements.

[Degree of protection \(front side\)](#)

Other

[Frequency rating](#)

40 Hz - 60 Hz

[Voltage test](#)

Yes, sliding inspection windows

Resources

[Brochures](#)

[eaton-xeffect-xnh-fuse-switch-disconnector-brochure-br019002en-en-us.pdf](#)

[Catalogues](#)

[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-003.eps](#)

[Installation instructions](#)

[IL0131110ZU](#)

Terminal capacity (copper busbar)

Bolt diameter at flange connection: M10

Max. 37 mm cable lug width at flange connection

30 mm x 10 mm

10.8 Connections for external conductors

Is the panel builder's responsibility.

Cable entry type

Other

Rated conditional short-circuit current (I_q)

120 kA

Actuator type

Cover grip

Special features

Current paths of electrolytic

copper, silver-plated

Permanent operation (rated

operating mode)

Rated operation current (I_e)

250 A

Heat dissipation per pole, current-dependent

5.3 W

Rated operation power at AC-23, 400 V

0 kW

Color

Gray

Power rating at AC-23, 400 V

0 kW

Features

Halogen free

Standard sealable

Lifespan, electrical

200 operations

Electrical connection type of main circuit

Screw connection

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

Number of poles

Three-pole

Heat dissipation at 80% without fuses

10.2 W

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

Rated uninterrupted current (I_u)

250 A

Mounting position

Vertical or horizontal

Equipment heat dissipation, current-dependent

16 W

10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

Rated operational current

250 A (AC-22B)

250 A (AC-21B)

250 A (DC-21B)

250 A (AC-23B)

250 A (DC-22B)

Operating altitude without derating - max

2000 mm

10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

Terminal capacity (stranded cable)

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

35 mm² - 150 mm² at box terminal

10 mm² - 150 mm² at clamp-type terminal

25 mm² - 150 mm² at box terminal

Heat deflection temperature

125 °C

Rated operating voltage (Ue) at AC - max

690 V

Flammability characteristics (UL)

Self-extinguishing (UL 94)

Rated conditional short-circuit rating

100 kA (690 V)

120 kA (500 V)

Suitable for

Ground mounting

Voltage rating at AC

400 V (AC-23B)

500 V (AC-22B)

690 V (AC-21B)

Frequency rating of contacts

40 Hz - 60 Hz

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.

Connection type

Flat connection

Lifespan, mechanical

1400 operations

10.9.2 Power-frequency electric strength

$U_i = 800 \text{ V AC}$

Degree of protection

IP10 (handle cover open, XNH installed)

IP2XC (contact protection, XNH installed)

IP20 (operating status, XNH installed)

Overvoltage category

III

Conditioned rated short-circuit current Iq

120 kA

Rated short-time withstand current (Icw)

6 kA

Permitted power loss per fuse link - max

23 W

Pollution degree

3

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

Rated impulse withstand voltage (Uimp)

8 kV

10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

Voltage rating at DC

250 V (DC-22B)

440 V (DC-21B)

Size

NH1 fuse

Material

Polyamide

Ambient operating temperature details

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

Type

Basic device

10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2.7 Inscriptions

Meets the product standard's requirements.

Total heat dissipation without fuses at ith

16 W

Direction of incoming supply

As required

Activation type

Dependent manual activation

Rated insulation voltage (Ui)

800 VAC



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