

Specifications



Eaton 183061

Eaton xEffect - XNH circuit protection. NH fuse-switch 3p flange connection M10 max. 240 mm², mounting plate, electronic fuse monitoring, NH2

General specifications

PRODUCT NAME	Eaton xEffect XNH device for mounting plate
CATALOG NUMBER	183061
MODEL CODE	XNH2-FCE-A400
EAN	4015081779888
PRODUCT LENGTH/DEPTH	306 mm
PRODUCT HEIGHT	165 mm
PRODUCT WIDTH	210 mm
PRODUCT WEIGHT	3.387 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947-3



Powering Business Worldwide

Additional information

FEATURES

Standard sealable
Electronic fuse monitoring
and EMC (Electromagnetic
compatibility) as of IEC
61000-4-5
Electronic fuse monitoring
and EMC (Electromagnetic
compatibility) as of IEC
61000-4-4
Halogen free

FITTED WITH:

Error protection
Connectors

FLAMMABILITY CHARACTERISTICS (UL)

Self-extinguishing (UL 94)

SPECIAL FEATURES

- Permanent operation (rated operating mode)
- Current paths of electrolytic copper, silver-plated
- With electronic monitoring of fuse-links

SUITABLE FOR

Ground mounting
Front mounting

Delivery programme

ACTUATOR TYPE

Cover grip

COLOR

Gray

NUMBER OF POLES

Three-pole

TYPE

Fuse control - electronic

Design verification to IEC/EN 61439

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

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

Does not apply, since the

Design verification to IEC/EN 61439 - technical data

AMBIENT OPERATING TEMPERATURE DETAILS

- Ambient temperature range: -25 °C - 70 °C
- Operating temperature range: -5 °C - 55 °C

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT

22 W

HEAT DEFLECTION TEMPERATURE

125 °C

HEAT DISSIPATION AT 80% WITHOUT FUSES

17.8 W

HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT

7.3 W

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)

400 A

TOTAL HEAT DISSIPATION WITHOUT FUSES AT ITH

28 W

AGAINST ELECTRIC SHOCK	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.

Technical data - electrical

CREEPAGE RESISTANCE	CTI 600
DIRECTION OF INCOMING SUPPLY	As required
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
ELECTRONIC FUSE MONITORING	3 LEDs (F1, F2, F3) red 1 NC 1.5 VA Test button for relay + LEDs > 1 kOhm/V 1 LED green Self-supplied 1 NO NH with live handle straps
FREQUENCY RATING	40 Hz - 60 Hz
FREQUENCY RATING (ELECTRONIC FUSE MONITORING)	50 - 60 Hz
FREQUENCY RATING OF CONTACTS	40 Hz - 60 Hz
LIFESPAN, ELECTRICAL	200 operations
OPERATING ALTITUDE WITHOUT DERATING - MAX	2000 mm
OVERVOLTAGE CATEGORY	III (230/400 V) III II (500 V)
PERMITTED POWER LOSS PER FUSE LINK - MAX	34 W
POLLUTION DEGREE	3
POWER RATING AT AC-23, 400 V	0 kW
RATED CONDITIONAL SHORT-CIRCUIT RATING	120 kA (500 V) 100 kA (690 V)
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8 kV
RATED INSULATION VOLTAGE (UI)	800 VAC
RATED OPERATING VOLTAGE (UE) AT AC - MAX	500 V
RATED OPERATION CURRENT (IE)	400 A
RATED OPERATIONAL CURRENT	400 A (AC-21B) 400 A (AC-22B) 400 A (AC-23B) 400 A (DC-22B)

Technical data - mechanical

ACTIVATION TYPE	Dependent manual activation
ACTUATOR POSITION	Front side
CABLE ENTRY TYPE	Other
DEGREE OF PROTECTION (FRONT SIDE)	Other
LIFESPAN, MECHANICAL	800 operations
LOCKING FACILITY	Yes, optional
MATERIAL	Polyamide
MOUNTING METHOD	Mounting plate DIN rail
MOUNTING POSITION	Vertical or horizontal
SIZE	NH2 fuse
SUITABLE FOR FUSES	NH2
TERMINAL CAPACITY (COPPER BAND)	10 mm x 16 mm x 0.8 mm (10x) at box terminal
TERMINAL CAPACITY (COPPER BUSBAR)	Bolt diameter at flange connection: M10 40 mm x 10 mm Max. 48 mm cable lug width at flange connection
TERMINAL CAPACITY (COPPER STRIP)	16 mm x 0.8 mm (6x) - 32 mm x 1 mm (10x) at box terminal
TERMINAL CAPACITY (STRANDED CABLE)	25 mm ² - 240 mm ² at box terminal 120 mm ² - 150 mm ² (2x) at double clamp-type terminal 95 mm ² - 300 mm ² (1x) at box terminal 120 mm ² - 240 mm ² at clamp-type terminal
CONNECTION TYPE	Flat connection
DEGREE OF PROTECTION	IP20 (operating status, XNH installed) IP3X IP2XC (contact protection, XNH installed) IP10 (handle cover open, XNH installed)

RATED SHORT-TIME WITHSTAND CURRENT (ICW)	3 kA
RATED UNINTERRUPTED CURRENT (IU)	400 A
SWITCHING CURRENT OF ELECTRONIC FUSE MONITORING - MAX	1 A
VOLTAGE INPUTS	400 V AC - 500 V AC (+/- 10%)
VOLTAGE RATING AT AC	• 400 V (AC-23B) • 500 V (AC-22B) • 690 V (AC-21B)
VOLTAGE RATING AT AC - MAX	250 VAC
VOLTAGE RATING AT DC	440 V (DC-22B)
VOLTAGE RATING AT DC - MAX	24 VDC
VOLTAGE TEST	Yes, sliding inspection windows
CONDITIONED RATED SHORT-CIRCUIT CURRENT IQ	120 kA
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	120 kA

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
DECLARATIONS OF CONFORMITY	eaton-xnh-device-for-mounting-plate-declaration-of-conformity-eu250264en.pdf
DRAWINGS	eaton-circuit-breaker-xeffect-xeffect-xnh-circuit-protection-dimensions-007.eps
ECAD MODEL	ETN.XNH2-FCE-A400.edz
INSTALLATION INSTRUCTIONS	eaton-xeffect-xnh-fuse-switch-disconnector-il0131110z.pdf
MCAD MODEL	eaton-XNH2-FCE-A400-3d-model.stp eaton-switch-fuse-mcad-drawings-xnh2-fce-a400.dwg
WIRING DIAGRAMS	eaton-switch-xeffect-xeffect-xnh-circuit-protection-wiring-diagram-002.eps eaton-switch-xeffect-xeffect-xnh-circuit-protection-wiring-diagram.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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