Eaton 183041

Eaton xEffect - XNH circuit protection. NH fuse-switch 3p with lowered box terminal BT2 1,5 - 95 mm², busbar 60 mm, electronic fuse monitoring, NH000 & NH00

PRODUCT NAME	Eaton xEffect XNH device for busbar system
CATALOG NUMBER	183041
PRODUCT LENGTH/DEPTH	204 mm
PRODUCT HEIGHT	161 mm
PRODUCT WIDTH	106 mm
PRODUCT WEIGHT	0.982 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947-3

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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
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

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□□□□□	eaton-xeffect-xnh-fuse-switch-disconnector-installation-leaflet-il0131111z.pdf
□□□	eaton-switch-xeffect-xeffect-xnh-circuit-protection-wiring-diagram.eps eaton-switch-xeffect-xeffect-xnh-circuit-protection-wiring-diagram-002.eps
□□□□	eaton-xeffect-xnh-fuse-switch-disconnector-brochure-br019002en-en-us.pdf
□□	eaton-circuit-breaker-xeffect-xeffect-xnh-circuit-protection-dimensions-025.eps

	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.
FITTED WITH:	Connectors Error protection
FREQUENCY RATING	40 Hz - 60 Hz
POLLUTION DEGREE	3
CREEPAGE RESISTANCE	CTI 600
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	14 W
RATED UNINTERRUPTED CURRENT (IU)	160 A
SWITCHING CURRENT OF ELECTRONIC FUSE MONITORING - MAX	1 A
TOTAL HEAT DISSIPATION WITHOUT FUSES AT ITH	14 W
VOLTAGE RATING AT AC - MAX	250 VAC
VOLTAGE RATING AT DC - MAX	24 VDC
AMBIENT OPERATING TEMPERATURE DETAILS	• Ambient temperature range:

	-25 °C - 70 °C • Operating temperature range: -5 °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 at DC-22B • 440 V DC at DC-21B
CONDITIONED RATED SHORT-CIRCUIT CURRENT IQ	120 kA
NUMBER OF POLES	Three-pole
SIZE	NH000 / NH00 fuse
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8 kV
COLOR	Gray
CONNECTION TYPE	Box terminal
DEGREE OF PROTECTION	IP2XC (contact protection, XNH installed) IP10 (handle cover open, XNH installed) IP3X IP20 (operating status, XNH installed)
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	7 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 INPUTS	400 V AC - 500 V AC (+/- 10%)
VOLTAGE TEST	Yes, sliding inspection windows
HEAT DISSIPATION AT 80% WITHOUT FUSES	9 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	4.7 W

MOUNTING POSITION	Vertical or horizontal
SUITABLE FOR	Busbar mounting Front mounting
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	120 kA
OVERVOLTAGE CATEGORY	II (500 V) III III (230/400 V)
SUITABLE FOR FUSES	NH00
MATERIAL	Polyamide
CABLE ENTRY TYPE	Other
FREQUENCY RATING OF CONTACTS	40 Hz - 60 Hz
MOUNTING METHOD	Busbars of 60 mm
RATED OPERATION CURRENT (IE)	160 A
LOCKING FACILITY	Yes, optional
FLAMMABILITY CHARACTERISTICS (UL)	Self-extinguishing (UL 94)
TYPE	Fuse control - electronic
SPECIAL FEATURES	• Permanent operation (rated operating mode) • Current paths of electrolytic copper, silver-plated • Cable connection optionally at the top or bottom • With electronic monitoring of fuse-links
DEGREE OF PROTECTION (FRONT SIDE)	Other
HEAT DEFLECTION TEMPERATURE	125 °C
LIFESPAN, ELECTRICAL	300 operations
LIFESPAN, MECHANICAL	1400 operations
ELECTRONIC FUSE MONITORING	NH with live handle straps Self-supplied 1 NO 1 NC Test button for relay + LEDs 1 LED green > 1 kOhm/V 3 LEDs (F1, F2, F3) red 1.5 VA
TERMINAL CAPACITY	Max. 25 mm cable lug

(COPPER BUSBAR)	width at flange connection 20 mm x 10 mm Bolt diameter at flange connection: M8
TERMINAL CAPACITY (COPPER BAND)	9 mm x 0.8 mm (6x) at box terminal
TERMINAL CAPACITY (STRANDED CABLE)	1.5 mm² - 50 mm² at box terminal 1.5 mm² - 95 mm² at box terminal 10 mm² - 70 mm² at clamp-type terminal
FREQUENCY RATING (ELECTRONIC FUSE MONITORING)	50 - 60 Hz
RATED OPERATIONAL CURRENT	160 A (AC-21B) 160 A (AC-23B) 160 A (AC-22B) 160 A
OPERATING ALTITUDE WITHOUT DERATING - MAX	2000 mm
PERMITTED POWER LOSS PER FUSE LINK - MAX	12 W
POWER RATING AT AC-23, 400 V	0 kW
RATED INSULATION VOLTAGE (UI)	800 VAC
RATED OPERATING VOLTAGE (UE) AT AC - MAX	500 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	160 A
RATED CONDITIONAL SHORT-CIRCUIT RATING	120 kA (500 V) 100 kA (690 V)
TERMINAL CAPACITY (COPPER STRIP)	9 mm x 0.8 mm (9x) at box terminal

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