

Specifications



Photo is representative

Eaton 104613

Eaton Moeller series NZM Earth-fault release, 300mA, 4p, bottom

General specifications

PRODUCT NAME	Eaton Moeller series NZM Earth leakage relay
CATALOG NUMBER	104613
MODEL CODE	NZM1-4-XFI300U
EAN	4015081044238
PRODUCT LENGTH/DEPTH	180 mm
PRODUCT HEIGHT	80 mm
PRODUCT WIDTH	120 mm
PRODUCT WEIGHT	0.9 kg
COMPLIANCES	IEC RoHS conform
CERTIFICATIONS	IEC/EN 60947-2 IEC/EN 60947-2 annex B

Product specifications

USED WITH	Four-pole NZM1-4 N1-4
VOLTAGE RATING	200 - 415 V AC, min. 80 V AC for detection of fault currents type A/AC (dependent on mains voltage)
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	Does not apply, since the

Resources

BROCHURES	eaton-digital-nzm-brochure-br013003en-en-us.pdf eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf
CATALOGUES	eaton-digital-nzm-catalog-ca013003en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-accessories-declaration-of-conformity-eu250144en.pdf
DRAWINGS	eaton-circuit-breaker-release-nzm-earth-fault-release-dimensions.eps eaton-circuit-breaker-release-nzm-earth-fault-release-3d-drawing-002.eps eaton-circuit-breaker-symbol-nzm-earth-fault-release-symbol.eps
ECAD MODEL	ETN.104613.edz
INSTALLATION INSTRUCTIONS	eaton-residual-current-module-mount-below-nzm1-il01219027z.pdf
INSTALLATION VIDEOS	The new digital NZM Range Introduction of the new digital circuit breaker NZM
MCAD MODEL	DA-CD-nzm1_4_xfi DA-CS-nzm1_4_xfi
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet

IMPACT	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	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.
FRAME	NZM1 45 mm
FREQUENCY RATING	50 Hz / 60 Hz
MOUNTING METHOD	Bottom
AMBIENT OPERATING TEMPERATURE - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-5 °C
CURRENT RATING - MAX	100 A
POWER ON-DELAY TIME - MAX	300 ms
POWER ON-DELAY TIME - MIN	300 ms
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	415 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	200 V
RATED CONTROL SUPPLY	415 V

VOLTAGE (US) AT AC, 60 HZ - MAX	
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	200 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
CURRENT RATING - MIN	15 A
DEGREE OF PROTECTION	IP20 (operating component area)
MOUNTING POSITION	Vertical and 90° in all directions
LIFESPAN, MECHANICAL	20000 operations
FAULT CURRENT DETECTION RANGE	50/60 Hz
NUMBER OF POLES	Four-pole
TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)	As NZM1 standard terminal with ferrules As NZM1 standard terminal without ferrules
TYPE	• Accessory • Earth-fault releases
SPECIAL FEATURES	• Earth-fault release to IEC/EN 60947-2 • not UL/CSA approved • Suitable for use in three-phase systems • Pulse-current sensitive type A according to core-balance principle • For 4 pole NZM1-4 circuit-breakers and N1-4 switch-disconnectors • Supply voltage-dependent $U_e = 200 - 415 \text{ V } 50/60 \text{ Hz}$ • Control knobs, sealable. • Bottom mounting up to 100 A
APPLICATION	In three-phase systems
SHOCK RESISTANCE	20 g (half-sinusoidal shock 20 ms)

RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED FAULT CURRENT - MAX	0.3 A
RATED FAULT CURRENT - MIN	0.3 A
RATED OPERATING VOLTAGE (UE) - MAX	415 V
SENSITIVITY TYPE	Pulse-current sensitive as per core-balance principle (type A)

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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