

Specifications



Eaton 292345

Eaton Moeller series NZM Earth-fault release
30mA, AC/DC sensitive, 4p

General specifications

PRODUCT NAME	Eaton Moeller series NZM Earth leakage relay
CATALOG NUMBER	292345
MODEL CODE	NZM2-4-XFIA30
EAN	4015082923457
PRODUCT LENGTH/DEPTH	132 mm
PRODUCT HEIGHT	103 mm
PRODUCT WIDTH	140 mm
PRODUCT WEIGHT	6.06 kg
COMPLIANCES	IEC RoHS conform
CERTIFICATIONS	IEC/EN 60947-2 IEC/EN 60947-2 annex B
GLOBAL CATALOG	292345



Powering Business Worldwide

Product specifications

USED WITH	N2-4 Four-pole NZM2-4
VOLTAGE RATING	50 - 400 V AC (independent of 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 IMPACT	Does not apply, since the entire switchgear needs to be evaluated.

Resources

BROCHURES	eaton-digital-nzm-brochure-br013003en-en-us.pdf eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf
CATALOGS	eaton-digital-nzm-catalog-ca013003en-en-us.pdf
CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm-earth-fault-release-characteristic-curve.eps
DECLARATIONS OF CONFORMITY	eaton-accessories-declaration-of-conformity-eu250145en.pdf eaton-circuit-breaker-release-nzm-earth-fault-release-dimensions-002.eps eaton-circuit-breaker-symbol-nzm-earth-fault-release-symbol.eps eaton-circuit-breaker-current-nzm-earth-fault-release-3d-drawing.eps eaton-general-nzm-mccb-symbol.eps
DRAWINGS	ETN.292345.edz
INSTALLATION INSTRUCTIONS	eaton-circuit-breakers-protection-module-il01210008z.pdf
INSTALLATION VIDEOS	Introduction of the new digital circuit breaker NZM The new digital NZM Range
MCAD MODEL	DA-CS-nzm2_4_xfi DA-CD-nzm2_4_xfi
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet

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	NZM2 96 mm
FREQUENCY RATING	50 Hz
MOUNTING METHOD	Bottom
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
CURRENT RATING - MAX	250 A
POWER ON-DELAY TIME - MAX	30 ms
POWER ON-DELAY TIME - MIN	30 ms
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	400 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	50 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	400 V

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	50 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
VOLTAGE RATING AT DC	50 V DC (dependent on mains power)
CURRENT RATING - MIN	15 A
DEGREE OF PROTECTION	IP20 (operating component area)
MOUNTING POSITION	Vertical and 90° in all directions
LIFESPAN, MECHANICAL	2000 operations
FAULT CURRENT DETECTION RANGE	With AC voltage: 0 - 100 kHz With pulsed DC voltage: 50 Hz
NUMBER OF POLES	Four-pole
TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)	As NZM2 standard connection with ferrules As NZM2 standard terminal without ferrules
TYPE	Accessory Earth-fault releases
SPECIAL FEATURES	Core-balance principle with AC/DC sensitivity (in range 0 - 100 kHz) For 4 pole NZM2-4 circuit-breakers and N2-4 switch-disconnectors Internal power supply $U_s = 50 - 400$ V
APPLICATION	In three- and single-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	0.03 A
RATED FAULT CURRENT - MIN	0.03 A
RATED OPERATING VOLTAGE (UE) - MAX	400 V
SENSITIVITY TYPE	Sensitive to AC/DC (type B)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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