

Specifications



Photo is representative

Eaton 109777

Eaton Moeller series NZM - Molded Case Circuit Breaker. Socket 3p, 108A

General specifications

PRODUCT NAME	Eaton Moeller series NZM plug-in unit
CATALOG NUMBER	109777
MODEL CODE	NZM1-XSVS
EAN	4015081089598
PRODUCT LENGTH/DEPTH	190 mm
PRODUCT HEIGHT	78 mm
PRODUCT WIDTH	100 mm
PRODUCT WEIGHT	0.678 kg
COMPLIANCES	IEC RoHS conform
CERTIFICATIONS	IEC/EN 60947

Delivery programme

FEATURES	Version as busbar adapter
FRAME	NZM1
NOMINAL CURRENT	108 A
NUMBER OF POLES	Three-pole
TYPE	Plug-in socket for basic unit

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	Meets the product standard's requirements.
10.5 PROTECTION	Does not apply, since the

Design verification to IEC/EN 61439 - technical data

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	14.06 W

Technical data - mechanical

CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
DEGREE OF PROTECTION	IP2X (in the area of the plug-in area)
MOUNTING METHOD	Plug-in unit
MOUNTING POSITION	Vertical and 90° right/left
PROTECTION AGAINST DIRECT CONTACT	Finger and back-of-hand proof to VDE 0106 part 100
SHOCK RESISTANCE	20 g (half-sinusoidal shock 20 ms)

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	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.

Technical data - electrical

DIRECTION OF INCOMING SUPPLY	As required
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Frame clamp
ISOLATION	300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)

Technical data - mechanical - terminals

TERMINAL EQUIPMENT INCLUDED	Screw connection
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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
DRAWINGS	eaton-circuit-breaker-adapter-nzm-mccb-dimensions.eps
	eaton-circuit-breaker-nzm-socket-3d-drawing.eps
ECAD MODEL	ETN.109777.edz
INSTALLATION INSTRUCTIONS	eaton-circuit-breakers-plug-in-adapter-nzm1-il01219038z.pdf
INSTALLATION VIDEOS	The new digital NZM Range
	Introduction of the new digital circuit breaker NZM
MCAD MODEL	eaton-accessories-mcad-drawings-nzm1-xsvs.dwg
	DA-CS-nzm1 xsvs
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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