# Specifications



### Photo is representative





## Eaton 191675

Eaton Moeller series NZM - Molded Case Circuit Breaker. NZM2 PXR20 circuit breaker, 90A, 3p, plug-in technology, H, 2

General specifications	
PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	191675
MODEL CODE	NZMH2-MX90-SVE
EAN	4015081921874
PRODUCT LENGTH/DEPTH	190 mm
PRODUCT HEIGHT	160 mm
PRODUCT WIDTH	115 mm
PRODUCT WEIGHT	2.3 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC IEC/EN 60947
GLOBAL CATALOG	191675



Product specifications	
AMPERAGE RATING	90 A
VOLTAGE RATING	690 V - 690 V
CIRCUIT BREAKER FRAME TYPE	NZM2
ACCESSORIES REQUIRED	NZM2-XSVS
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-feerum-the-whole-grain-solution-success-story-en-us.pdf  eaton-digital-nzm-brochure-br013003en-en-us.pdf
CATALOGS	eaton-digital-nzm-catalog- ca013003en-en-us.pdf
	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 059.eps
CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 060.eps
CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 010.eps
	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 014.eps
DECLARATIONS OF CONFORMITY	eaton-molded-case-circuit- breaker-declaration-of- conformity- eu250291en.pdf
	eaton-circuit-breaker-nzm- mccb-dimensions-019.eps
	eaton-circuit-breaker- switch-nzm-mccb- dimensions-017.eps
DRAWINGS	eaton-circuit-breaker- adapter-nzm-mccb- dimensions-002.eps
	eaton-general-ie-ready- dilm-contactor- standards.eps
INSTALLATION INSTRUCTIONS	eaton-circuit-breakers- nzmb-nzmn-basic-unit- bg2-instruction-leaflet- il012099zu.pdf
	eaton-circuit-breaker-plug- in-adapter-nzm2- il01219023z.pdf
INSTALLATION VIDEOS	The new digital NZM Range

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.         FITTED WITH:       Thermal protection         POLLUTION DEGREE       3         MOUNTING METHOD       Plug-in unit Built-in device plug-in technique         CLIMATIC PROOFING       Co068-2-30 Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78         EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT       A (IEC/EN 60947-2)         UTILIZATION CATEGORY       A (IEC/EN 60947-2)         AMBIENT OP		
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MOUNTING METHOD  Built-in device plug-in technique  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT  UTILIZATION CATEGORY  A (IEC/EN 60947-2)  300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MIN  Built-in device plug-in technique  Augustic, to IEC 60068-2-30 Damp heat, cyclic, to IEC 60068-2-78  6.68 W  TO OC  A (IEC/EN 60947-2)  300 V AC (between auxiliary contacts) 500 V AC (between auxiliary contacts)	POLLUTION DEGREE	3
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ISOLATION  300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MIN  -25 °C	DISSIPATION, CURRENT-	6.68 W
auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MIN  -25 °C	UTILIZATION CATEGORY	A (IEC/EN 60947-2)
TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MIN  70 °C  -25 °C	ISOLATION	auxiliary contacts) 500 V AC (between auxiliary contacts and
TEMPERATURE - MIN		70 °C
<b>AMBIENT STORAGE</b> 70 °C		-25 °C

	Introduction of the new digital circuit breaker NZM
MCAD MODEL	DA-CS-nzm2 xsve  DA-CD-nzm2 xsve
PEP ECO-PASSPORT	eaton-molded-case- switches-pep-eato-00185- v0101-en.pdf
TECHNICAL DATA SHEETS	eaton-nzm-technical- information-sheet

TEMPERATURE - MAX	
AMBIENT STORAGE TEMPERATURE - MIN	40 °C
PROTECTION AGAINST DIRECT CONTACT	Finger and back-of-hand proof to VDE 0106 part 100
RATED INSULATION VOLTAGE (UI)	690 V
RATED OPERATING POWER AT AC-3, 230 V	22 kW
RATED OPERATING POWER AT AC-3, 400 V	45 kW
SWITCH OFF TECHNIQUE	Electronic
DEGREE OF PROTECTION	IP20 (basic degree of protection, in the operating controls area) IP20
DIRECTION OF INCOMING SUPPLY	As required
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Other
LIFESPAN, MECHANICAL	20000 operations
OVERVOLTAGE CATEGORY	Ш
RATED OPERATIONAL CURRENT	81 A (400 V AC-3)
DEGREE OF PROTECTION (IP), FRONT SIDE	IP66 (with door coupling rotary handle) IP40 (with insulating surround)
DEGREE OF PROTECTION (TERMINATIONS)	IP00 (terminations, phase isolator and strip terminal)
	IP10 (tunnel terminal)
NUMBER OF POLES	Three-pole
TERMINAL CAPACITY (COPPER STRIP)	Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal

LIFESPAN, ELECTRICAL	5000 operations at 690 V AC-3 6500 operations at 415 V AC-3 10000 operations at 400 V AC-1 6500 operations at 400 V AC-3 7500 operations at 690 V AC-1 10000 operations at 415 V AC-1
FUNCTIONS	Phase failure sensitive Motor protection
ТҮРЕ	Circuit breaker

- IEC/EN 60947-2
   with characteristic
   conforming to
   IEC/EN 60947-4-1
   with phase failure
   sensitivity
- The circuit-breaker fulfills all requirements for AC-3 switching category.
- R.m.s. value measurement and "thermal memory"
- Adjustable time delay setting to overcome current peaks tr at 6 x lr also infinity (without overload releases)
- All AC-3 rating data applies to direct switching by the circuit-breaker under normal operating conditions. If, for example, a contactor takes over AC-3 switching under normal operating conditions, the full rated uninterrupted current applies to the circuit-breaker,

In = Iu.

#### **SPECIAL FEATURES**

•	Maximum back-up
	fuse, if the
	expected short-
	circuit currents at
	the installation
	location exceed the
	switching capacity
	of the circuit
	breaker (Rated
	short-circuit
	breaking capacity
	lcn)

 Rated current = rated uninterrupted current: 90 A

APPLICATION	Use in unearthed supply systems at 690 V
SHOCK RESISTANCE	20 g (half-sinusoidal shock 20 ms)
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	90 A
RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)	1.9 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	1.9 kA
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	1620 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	180 A
HANDLE TYPE	Rocker lever
INSTANTANEOUS CURRENT SETTING (II) - MAX	18 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	2 A
NUMBER OF OPERATIONS PER HOUR - MAX	120
OVERLOAD CURRENT SETTING (IR) - MAX	90 A
OVERLOAD CURRENT SETTING (IR) - MIN	36 A
RATED SHORT-CIRCUIT	150 kA

BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ	130 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V, 50/60 HZ	130 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 525 V, 50/60 HZ	37.5 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 690 V, 50/60 HZ	5 kA
STANDARD TERMINALS	Screw terminal
OPTIONAL TERMINALS	Box terminal. Connection on rear. Tunnel terminal
RELEASE SYSTEM	Electronic release
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	16 mm² (1x) at tunnel terminal
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	25 mm² - 185 mm² (1x) at tunnel terminal
TERMINAL CAPACITY (CONTROL CABLE)	0.75 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (2x) 0.75 mm <sup>2</sup> - 2.5 mm <sup>2</sup> (1x)
TERMINAL CAPACITY (COPPER BUSBAR)	Max. 24 mm x 8 mm direct at switch rear-side connection Min. 16 mm x 5 mm direct at switch rear-side connection M8 at rear-side screw connection
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	6 mm <sup>2</sup> - 16 mm <sup>2</sup> (2x) at box terminal 16 mm <sup>2</sup> (1x) at tunnel terminal 10 mm <sup>2</sup> - 16 mm <sup>2</sup> (1x) direct at switch rear-side connection 6 mm <sup>2</sup> - 16 mm <sup>2</sup> (2x) direct at switch rear-side connection

	10 mm² - 16 mm² (1x) at box terminal
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	25 mm² - 70 mm² (2x) at box terminal 25 mm² - 185 mm² (1x) at 1-hole tunnel terminal 25 mm² - 70 mm² (2x) direct at switch rear-side connection 25 mm² - 185 mm² (1x) at box terminal 25 mm² - 185 mm² (1x) direct at switch rear-side connection
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU (IEC/EN 60947) AT 400/415 V, 50/60 HZ	130 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	330 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	286 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 525 V, 50/60 HZ	105 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ	40 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ	330 kA
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS	6000 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS	8000 V

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



### **Eaton Corporation plc**

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