Specifications



Photo is representative





Eaton 103035

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 8A, B2-S8-CNA

General specifications		
PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker magnetic	
CATALOG NUMBER	103035	
MODEL CODE	NZMB2-S8-CNA	
EAN	4015081028740	
PRODUCT LENGTH/DEPTH	149 mm	
PRODUCT HEIGHT	195 mm	
PRODUCT WIDTH	105 mm	
PRODUCT WEIGHT	2.345 kg	
COMPLIANCES	RoHS conform	
CERTIFICATIONS	UL listed UL (File No. E31593) UL (Category Control Number DKPU2) UL/CSA Specially designed for North America CSA (Class No. 1432-01) CSA certified UL 489 CSA (File No. 22086) CSA-C22.2 No. 5-09	



AMPERAGE RATING	8 A
VOLTAGE RATING	690 V - 690 V
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.
	Does not apply, since the

Resources	
BROCHURES	eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf eaton-digital-nzm-brochure-br013003en-en-us.pdf
CATALOGUES	eaton-digital-nzm-catalog- ca013003en-en-us.pdf
	eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-034.eps
CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 052.eps
	eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-030.eps
DECLARATIONS OF CONFORMITY	eaton-molded-case-circuit- breaker-declaration-of- conformity- eu250290en.pdf
	eaton-circuit-breaker- switch-nzm-mccb- dimensions-017.eps
DRAWINGS	eaton-circuit-breaker-nzm- mccb-dimensions-019.eps
	eaton-circuit-breaker- switch-nzm-mccb-3d- drawing.eps
INSTALLATION INSTRUCTIONS	eaton-circuit-breakers- basic-device-nzm2- il01206006z.pdf
INSTALLATION VIDEOS	Introduction of the new digital circuit breaker NZM
	The new digital NZM Range
MCAD MODEL	DA-CD-nzm2_3p
TECHNICAL DATA SHEETS	eaton-nzm-technical- information-sheet

PROTECTION OF ASSEMBLIES	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	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
POLLUTION DEGREE	3
MOUNTING METHOD	Fixed Built-in device fixed built- in technique DIN rail (top hat rail) mounting optional
MOUNTING METHOD CLIMATIC PROOFING	Built-in device fixed built- in technique DIN rail (top hat rail)
	Built-in device fixed built- in technique DIN rail (top hat rail) mounting optional Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC
CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT-	Built-in device fixed built-in technique DIN rail (top hat rail) mounting optional Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	Built-in device fixed built-in technique DIN rail (top hat rail) mounting optional Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 0.88 W 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and
CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT ISOLATION	Built-in device fixed built-in technique DIN rail (top hat rail) mounting optional Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 0.88 W 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts) IP20 IP20 (basic degree of protection, in the

LIFESPAN, MECHANICAL	20000 operations
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION (IP), FRONT SIDE	IP40 (with insulating surround) IP66 (with door coupling rotary handle)
DEGREE OF PROTECTION (TERMINATIONS)	IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)
NUMBER OF POLES	Three-pole
TERMINAL CAPACITY (COPPER STRIP)	Max. 10 segments 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 Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at box terminal
LIFESPAN, ELECTRICAL	6500 operations at 415 V AC-3 7500 operations at 400 V AC-1
FUNCTIONS	Short-circuit protection
FUNCTIONS TYPE	Short-circuit protection Circuit breaker
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TYPE	Rated current = rated uninterrupted current: 8 A This circuit-breaker is only allowed to be used for UL/CSA applications. Motor protection in conjunction with contactor and overload relay With short-circuit release Without overload
TYPE SPECIAL FEATURES	Rated current = rated uninterrupted current: 8 A This circuit-breaker is only allowed to be used for UL/CSA applications. Motor protection in conjunction with contactor and overload relay With short-circuit release Without overload release Ir Branch circuits, feeder
TYPE SPECIAL FEATURES APPLICATION	Rated current = rated uninterrupted current: 8 A This circuit-breaker is only allowed to be used for UL/CSA applications. Motor protection in conjunction with contactor and overload relay With short-circuit release Without overload release Ir Branch circuits, feeder circuits 20 g (half-sinusoidal shock

BREAKTIME	
TERMINAL CAPACITY (CONTROL CABLE)	14 mm ² - 18 mm ² (1x) 16 mm ² - 18 mm ² (2x)
TERMINAL CAPACITY (COPPER BUSBAR)	M8 at rear-side screw connection Min. 16 mm x 5 mm direct at switch rear-side connection Max. 20 mm x 5 mm direct at switch rear-side connection
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	6 mm ² - 12 mm ² (1x) at box terminal 6 mm ² - 11 mm ² (1x) direct at switch rear-side connection 6 mm ² (1x) at tunnel terminal
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	4 mm ² - 350 mm ² (1x) at box terminal 4 mm ² - 350 mm ² (1x) at tunnel terminal 4 mm ² - 3/0 mm ² (1x) direct at switch rear-side connection

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



Eaton Corporation plc

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