## Specifications



Photo is representative





## Eaton 269243

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 40A, B2-S40-CNA

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General specification	S
PRODUCT NAME	Eaton Moeller series NZM molded case circuit
	breaker magnetic
CATALOG NUMBER	269243
MODEL CODE	NZMB2-S40-CNA
EAN	4015082692438
PRODUCT LENGTH/DEPTH	149 mm
PRODUCT HEIGHT	195 mm
PRODUCT WIDTH	105 mm
PRODUCT WEIGHT	2.345 kg
COMPLIANCES	RoHS conform
	CSA certified
	IEC 60947-2 IEC/EN 60947
	Specially designed for
	North America
	UL listed
	UL/CSA
	UL (File No. E31593)
CERTIFICATIONS	CSA (File No. 22086)
	UL (Category Control
	Number DKPU2)
	CSA (Class No. 1432-01)
	CE marking
	CSA-C22.2 No. 5-09
	IEC
	UL 489



AMPERAGE RATING	40 A
VOLTAGE RATING	440 V - 440 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.
10.3 DEGREE OF	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
CHARACTERISTIC CURVE	eaton-circuit-breaker- characteristic-power- defense-mccb- characteristic-curve- 030.eps
	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 052.eps
	eaton-circuit-breaker- characteristic-power- defense-mccb- characteristic-curve- 034.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
ECAD MODEL	ETN.269243.edz
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-CS-nzm2_3p  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	ls 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	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
POLLUTION DEGREE	2
POLLOTION DEGREE	3
MOUNTING METHOD	Built-in device fixed built- in technique Fixed
	Built-in device fixed built- in technique
MOUNTING METHOD	Built-in device fixed built- in technique Fixed  Damp heat, cyclic, to IEC 60068-2-30  Damp heat, constant, to
MOUNTING METHOD  CLIMATIC PROOFING  EQUIPMENT HEAT DISSIPATION, CURRENT-	Built-in device fixed built- in technique Fixed  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
MOUNTING METHOD  CLIMATIC PROOFING  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	Built-in device fixed built- in technique Fixed  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78  1.52 W
MOUNTING METHOD  CLIMATIC PROOFING  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT  UTILIZATION CATEGORY	Built-in device fixed built-in technique Fixed  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78  1.52 W  A (IEC/EN 60947-2) 500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the
MOUNTING METHOD  CLIMATIC PROOFING  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT  UTILIZATION CATEGORY  ISOLATION  AMBIENT OPERATING	Built-in device fixed built-in technique Fixed  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78  1.52 W  A (IEC/EN 60947-2)  500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
MOUNTING METHOD  CLIMATIC PROOFING  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT  UTILIZATION CATEGORY  ISOLATION  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING	Built-in device fixed built-in technique Fixed  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78  1.52 W  A (IEC/EN 60947-2)  500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
MOUNTING METHOD  CLIMATIC PROOFING  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT  UTILIZATION CATEGORY  ISOLATION  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MIN  AMBIENT STORAGE	Built-in device fixed built-in technique Fixed  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78  1.52 W  A (IEC/EN 60947-2)  500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)  70 °C  -25 °C

- MAX	
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	11 kW
RATED OPERATING POWER AT AC-3, 400 V	18.5 kW
SWITCH OFF TECHNIQUE	Magnetic
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	Screw connection
LIFESPAN, MECHANICAL	20000 operations
OVERVOLTAGE CATEGORY	Ш
RATED OPERATIONAL CURRENT	300 A (400 V AC-1, making and breaking capacity) 40 A (660-690 V AC-3, making and breaking capacity) 300 A (415 V AC-1, making and breaking capacity)
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) 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 Max. 10 segments of 16 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
ТҮРЕ	Circuit breaker
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: 40 A     Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate.     Motor protection in conjunction with contactor and overload relay     With short-circuit release     Without overload release Ir
APPLICATION	<ul> <li>Branch circuits, feeder circuits</li> <li>Use in unearthed supply systems at 440 V</li> </ul>
SHOCK RESISTANCE	20 g (half-sinusoidal shock 20 ms)
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	40 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING -	560 A

MAX

SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	320 A
HANDLE TYPE	Rocker lever
INSTANTANEOUS CURRENT SETTING (II) - MAX	14 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	8 A
NUMBER OF OPERATIONS PER HOUR - MAX	120
OVERLOAD CURRENT SETTING (IR) - MAX	0 A
OVERLOAD CURRENT SETTING (IR) - MIN	0 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	30 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ	18.5 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V, 50/60 HZ	18.5 kA
STANDARD TERMINALS	Screw terminal
RATED OPERATING VOLTAGE UE (UL) - MAX	600 Y / 347 V, 480 V
RELEASE SYSTEM	Thermomagnetic release
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	16 mm² (1x) at tunnel terminal
TERMINAL CAPACITY (CONTROL CABLE)	16 mm² - 18 mm² (2x) 14 mm² - 18 mm² (1x)
TERMINAL CAPACITY (COPPER BUSBAR)	Min. 16 mm x 5 mm direct at switch rear-side connection Max. 20 mm x 5 mm direct at switch rear-side connection M8 at rear-side screw connection
TERMINAL CAPACITY (COPPER SOLID	6 mm² - 12 mm² (1x) at box terminal

CONDUCTOR/CABLE)	6 mm <sup>2</sup> - 11 mm <sup>2</sup> (1x) direct at switch rear-side connection 16 mm <sup>2</sup> (1x) at tunnel terminal
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	4 mm <sup>2</sup> - 3/0 mm <sup>2</sup> (1x) direct at switch rear-side connection 4 mm <sup>2</sup> - 350 mm <sup>2</sup> (1x) at tunnel terminal 4 mm <sup>2</sup> - 350 mm <sup>2</sup> (1x) at box terminal
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU (IEC/EN 60947) AT 400/415 V, 50/60 HZ	18.5 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	53 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	53 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ	63 kA
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS	6000 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS	8000 V
DOW/ED 1 000	4.5.11

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:

1.5 W



**POWER LOSS** 

**Eaton Corporation plc** 

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