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Eaton 259131

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 250A, NZMN3-VE250

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PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	259131
PRODUCT LENGTH/DEPTH	166 mm
PRODUCT HEIGHT	275 mm
PRODUCT WIDTH	140 mm
PRODUCT WEIGHT	6.904 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC IEC/EN 60947



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AMPERAGE RATING	250 A
VOLTAGE RATING	690 V - 690 V
CIRCUIT BREAKER FRAME TYPE	NZM3
FEATURES	Motor drive optional Protection unit
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.

	eaton-circuit-breaker-let- through-current-nzm- mccb-characteristic-curve- 004.eps
CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 046.eps
	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 017.eps
00000	eaton-circuit-breaker- basic-device-nzmn-b- il01208009z.pdf
	eaton-circuit-breaker-nzm- mccb-dimensions-020.eps
00	eaton-circuit-breaker- switch-nzm-mccb- dimensions-016.eps
	eaton-circuit-breaker- switch-nzm-mccb-3d- drawing-002.eps

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	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	ls 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
LIFESPAN, MECHANICAL	15000 operations
UTILIZATION CATEGORY	15000 operations A (IEC/EN 60947-2)
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UTILIZATION CATEGORY	A (IEC/EN 60947-2) Built-in device fixed built-in technique
MOUNTING METHOD	A (IEC/EN 60947-2) Built-in device fixed built-in technique Fixed Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to
UTILIZATION CATEGORY MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT-	A (IEC/EN 60947-2) Built-in device fixed built-in technique Fixed Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
UTILIZATION CATEGORY MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	A (IEC/EN 60947-2) Built-in device fixed built-in technique Fixed Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 18.75 W 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and
UTILIZATION CATEGORY MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT ISOLATION AMBIENT OPERATING	A (IEC/EN 60947-2) Built-in device fixed built-in technique Fixed Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 18.75 W 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)
UTILIZATION CATEGORY MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT ISOLATION AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING	A (IEC/EN 60947-2) Built-in device fixed built-in technique Fixed Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 18.75 W 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts) 70 °C
UTILIZATION CATEGORY MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT ISOLATION AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT STORAGE	A (IEC/EN 60947-2) Built-in device fixed built-in technique Fixed Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 18.75 W 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts) 70 °C -25 °C
UTILIZATION CATEGORY MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT ISOLATION AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT STORAGE TEMPERATURE - MAX AMBIENT STORAGE	A (IEC/EN 60947-2) Built-in device fixed built-in technique Fixed Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 18.75 W 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts) 70 °C -25 °C

CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) PROTECTION AGAINST DIRECT CONTACT DEGREE OF PROTECTION DIRECTION OF INCOMING SUPPLY ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT OVERVOLTAGE CATEGORY DEGREE OF PROTECTION (IP), FRONT SIDE IP40 (with door coupling rotary handle) IP40 (with insulating surround) DEGREE OF PROTECTION (TERMINATIONS) NUMBER OF POLES Three-pole Max. 8 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm (2x) at box terminal Max. 10 segments of 50 mm x 1 mm (2x) at rear-side width extension Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm at rear-side connection (punched) Min. 6 segments of 16 mm x 0.8 mm at tear-side connection (punched) Min. 6 segments of 16 mm x 0.8 mm at box terminal LIFESPAN, ELECTRICAL LIFESPAN, ELECTRICAL LIFESPAN, ELECTRICAL LIFESPAN, ELECTRICAL O DEGREE OF AUXILIARY O O PROTECTION Finger and back-of-hand proof to DIN EN SO274/VDE 0106 part 110 PEOR (with door coupling rotary handle) IP40 (with insulating surround) IP40 (with insulating surround) IP40 (with insulating surround) IP40 (turnnel terminal) IP40 (with insulating surround) IP40 (with insulating surro		
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x 0.8 mm at box terminal 2000 operations at 415 V AC-3 5000 operations at 400 V AC-1 2000 operations at 400 V		mm x 1 mm (2x) at box terminal Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm 10 segments of 50 mm x 1 mm (2x) at rear-side width extension
AC-1 2000 operations at 400 V	(COLLEGIAL)	x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear- side connection (punched)
		x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched) Min. 6 segments of 16 mm x 0.8 mm at box terminal 2000 operations at 415 V AC-3 5000 operations at 400 V

FUNCTIONS TYPE	5000 operations at 415 V AC-1 2000 operations at 690 V AC-3 3000 operations at 690 V AC-1 Systems, cable, selectivity and generator protection 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) R.m.s. value measurement and "thermal memory" Adjustable time delay setting to overcome current peaks tr at 6 x Ir also infinity (without overload releases) Adjustable delay time tsd i²t constant function: switchable Rated current = rated uninterrupted current: 250 A Terminal capacity hint: Up to 240 mm² can be connected depending on the cable manufacturer.
APPLICATION	Use in unearthed supply systems at 690 V
SHOCK RESISTANCE	20 g (half-sinusoidal shock 20 ms)
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Front side
RATED OPERATIONAL	250 A

CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	
RELEASE SYSTEM	Electronic release
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)	3.3 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	3.3 kA
SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX	2500 A
SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN	250 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	2750 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	500 A
TERMINAL CAPACITY (CONTROL CABLE)	0.75 mm ² - 1.5 mm ² (2x) 0.75 mm ² - 2.5 mm ² (1x)
TERMINAL CAPACITY (COPPER BUSBAR)	M10 at rear-side screw connection Max. 30 mm x 10 mm + 30 mm x 5 mm direct at switch rear-side connection Min. 20 mm x 5 mm direct at switch rear-side connection Max. 10 mm x 50 mm (2x) at rear-side width extension
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	16 mm² (1x) direct at switch rear-side connection 16 mm² (2x) direct at switch rear-side connection 16 mm² (2x) at box terminal 16 mm² (1x) at tunnel terminal 300 mm² (2x) at rear-side width extension
TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	10 mm ² - 16 mm ² (2x) direct at switch rear-side connection 16 mm ² (1x) direct at switch rear-side connection 16 mm ² (1x) at tunnel terminal

TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	35 mm² - 240 mm² (1x) at box terminal 50 mm² - 240 mm² (2x) at 2-hole tunnel terminal 25 mm² - 240 mm² (1x) direct at switch rear-side connection 25 mm² - 240 mm² (2x) direct at switch rear-side connection 25 mm² - 120 mm² (2x) at box terminal 16 mm² - 185 mm² (1x) at 1-hole tunnel terminal
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	50 mm² - 240 mm² (1x) at 2-hole tunnel terminal 50 mm² - 240 mm² (2x) at 2-hole tunnel terminal 25 mm² - 120 mm² (1x) direct at switch rear-side connection 25 mm² - 185 mm² (1x) at tunnel terminal 25 mm² - 120 mm² (2x) direct at switch rear-side connection
HANDLE TYPE	Rocker lever
SHORT DELAY CURRENT SETTING (ISD) - MAX	2500 A
SHORT DELAY CURRENT SETTING (ISD) - MIN	250 A
INSTANTANEOUS CURRENT SETTING (II) - MAX	2750 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	500 A
NUMBER OF OPERATIONS PER HOUR - MAX	60
OVERLOAD CURRENT SETTING (IR) - MAX	250 A
OVERLOAD CURRENT SETTING (IR) - MIN	125 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	85 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V,	35 kA

50/60 HZ	
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 525 V, 50/60 HZ	13 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 690 V, 50/60 HZ	5 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	105 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	74 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 525 V, 50/60 HZ	53 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ	40 kA
STANDARD TERMINALS	Screw terminal
OPTIONAL TERMINALS	Box terminal. Connection on rear. Tunnel terminal
OPTIONAL TERMINALS RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ	
RATED SHORT-CIRCUIT MAKING CAPACITY ICM	on rear. Tunnel terminal
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY	on rear. Tunnel terminal 187 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN	on rear. Tunnel terminal 187 kA 6000 V
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS RATED INSULATION	on rear. Tunnel terminal 187 kA 6000 V 8000 V
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS RATED INSULATION	on rear. Tunnel terminal 187 kA 6000 V 8000 V



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