

00000

Eaton 265777

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 1600A

0000	
PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	265777
PRODUCT LENGTH/DEPTH	401 mm
PRODUCT HEIGHT	207 mm
PRODUCT WIDTH	210 mm
PRODUCT WEIGHT	19.206 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947 IEC



AMPERAGE RATING	1600 A
VOLTAGE RATING	690 V - 690 V
CIRCUIT BREAKER FRAME TYPE	NZM4
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.

CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm-mccb-characteristic-curve-049.eps eaton-circuit-breaker-nzm-mccb-characteristic-curve-048.eps
00000	eaton-circuit-breaker- basic-unit-nzmn4- il01210010z.pdf
00	eaton-circuit-breaker-nzm- mccb-dimensions-022.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	10000 operations
LIFESPAIN, WIECHANICAL	
UTILIZATION CATEGORY	B (IEC/EN 60947-2)
	·
UTILIZATION CATEGORY	B (IEC/EN 60947-2) Built-in device fixed built-in technique
MOUNTING METHOD	B (IEC/EN 60947-2) Built-in device fixed built-in technique Fixed Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC
UTILIZATION CATEGORY MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT-	B (IEC/EN 60947-2) Built-in device fixed built-in technique Fixed Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	B (IEC/EN 60947-2) Built-in device fixed built-in technique Fixed Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 284 W 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and
MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT ISOLATION AMBIENT OPERATING	B (IEC/EN 60947-2) Built-in device fixed built-in technique Fixed Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 284 W 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)
MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT ISOLATION AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING	B (IEC/EN 60947-2) Built-in device fixed built-in technique Fixed Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 284 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	B (IEC/EN 60947-2) Built-in device fixed built-in technique Fixed Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 284 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	B (IEC/EN 60947-2) Built-in device fixed built-in technique Fixed Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 284 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 CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
PROTECTION AGAINST DIRECT CONTACT	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
DEGREE OF PROTECTION	IP20 IP20 (basic degree of protection, in the operating controls area)
DIRECTION OF INCOMING SUPPLY	As required
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION (IP), FRONT SIDE	IP40 (with insulating surround) IP66 (with door coupling rotary handle)
DEGREE OF PROTECTION (TERMINATIONS)	IP00 (terminations, phase isolator and strip terminal)
	IP10 (tunnel terminal)
NUMBER OF POLES	Three-pole
	Max. 10 segments of 50 mm x 1 mm (2x) at rearside connection (punched) Max. 10 segments of 32 mm x 1 mm (2x) at flat
TERMINAL CAPACITY (COPPER STRIP)	conductor terminal Min. 5 segments of 25 mm x 1 mm at rear-side connection (punched) 10 segments of 80 mm x 1 mm (2x) at rear-side width extension 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal
LIFESPAN, ELECTRICAL	2000 operations at 400 V AC-3 2000 operations at 415 V AC-3 3000 operations at 415 V

RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)	19.2 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	19.2 kA
SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX	16000 A
SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN	1600 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	19200 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	3200 A
TERMINAL CAPACITY (CONTROL CABLE)	0.75 mm ² - 2.5 mm ² (1x) 0.75 mm ² - 1.5 mm ² (2x)
TERMINAL CAPACITY (COPPER BUSBAR)	Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 25 mm x 5 mm at rear-side 1-hole module plate Max. 50 mm x 10 mm (2x) direct at switch rear-side connection Min. 25 mm x 5 mm direct at switch rear-side connection Min. 60 mm x 10 mm at rear-side width extension Max. 80 mm x 10 mm (2x) at rear-side width extension 50 mm x 10 mm (2x) at rear-side 2-hole module plate M10 at rear-side screw connection
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	95 mm² - 240 mm² (6x) at rear-side width extension 300 mm² (4x) at rear-side width extension 95 mm² - 185 mm² (2x) at rear-side 2-hole module plate 120 mm² - 300 mm² (1x) at rear-side 1-hole module plate 35 mm² - 185 mm² (4x) at rear-side 2-hole module plate 50 mm² - 240 mm² (4x) at 4-hole tunnel terminal 95 mm² - 300 mm² (2x) at rear-side 1-hole module

	plate
TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	70 mm² - 185 mm² (2x) at rear-side 1-hole module plate 240 mm² (2x) at rear-side width extension 50 mm² (4x) at rear-side 2-hole module plate 70 mm² - 240 mm² (6x) at rear-side width extension 185 mm² - 240 mm² (1x) at rear-side 1-hole module plate
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	50 mm² - 185 mm² (4x) direct at switch rear-side connection 120 mm² - 185 mm² (1x) direct at switch rear-side connection
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	50 mm² - 240 mm² (4x) at 4-hole tunnel terminal
HANDLE TYPE	Rocker lever
SHORT DELAY CURRENT SETTING (ISD) - MAX	16000 A
SHORT DELAY CURRENT SETTING (ISD) - MIN	1600 A
INSTANTANEOUS CURRENT SETTING (II) - MAX	19200 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	3200 A
NUMBER OF OPERATIONS PER HOUR - MAX	60
OVERLOAD CURRENT SETTING (IR) - MAX	1600 A
OVERLOAD CURRENT SETTING (IR) - MIN	800 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	63 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, 50/60 HZ	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS	50 kA

(IEC/EN 60947) AT 525 V, 50/60 HZ	
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 690 V, 50/60 HZ	37 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	187 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	187 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 525 V, 50/60 HZ	143 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ	100 kA
STANDARD TERMINALS	Screw terminal
OPTIONAL TERMINALS	Connection on rear. Strip terminal. Tunnel terminal
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ	275 kA
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS	6000 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS	8000 V
RATED INSULATION VOLTAGE (UI)	1000 V AC

0000:	
0000:	
000:	
00:	











