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## Eaton 107658

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 33A, box terminals

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PRODUCT NAME	Eaton Moeller series NZM - Molded case circuit breaker
CATALOG NUMBER	107658
PRODUCT LENGTH/DEPTH	149 mm
PRODUCT HEIGHT	195 mm
PRODUCT WIDTH	105 mm
PRODUCT WEIGHT	2.345 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	CSA (File No. 22086) UL 489 Specially designed for North America UL listed UL (File No. E31593) UL (Category Control Number DKPU2) CSA (Class No. 1432-01) UL/CSA CSA certified CSA-C22.2 No. 5-09



AMPERAGE RATING33 AVOLTAGE RATING440 V - 440 V10.10 TEMPERATURE RISEThe panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.10.11 SHORT-CIRCUIT RATINGIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.12 ELECTROMAGNETIC COMPATIBILITYIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 MECHANICAL FUNCTIONThe device meets the requirements, provided the information in the instruction leaflet (IL) is observed.10.2.2 CORROSION RESISTANCEMeets the product standard's requirements.10.2.3.1 VERIFICATION OF ENCLOSURESMeets the product standard's requirements.10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEATMeets the product standard's requirements.10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTSMeets the product standard's requirements.10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATIONMeets the product standard's requirements.10.2.5 LIFTINGDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 MECHANICAL IMPACTDoes not apply, since the entire switchgear needs to be evaluated.10.2.7 INSCRIPTIONSMeets the product standard's requirements.10.3 DEGREE OF PROTECTION OF ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 CLEARANCES ANDMeets the product	0000	
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	10.4 CLEARANCES AND	Meets the product

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CREEPAGE DISTANCES	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	20000 operations
UTILIZATION CATEGORY	A (IEC/EN 60947-2)
MOUNTING METHOD	Fixed DIN rail (top hat rail) mounting optional Built-in device fixed built- in technique
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	2.55 W
ISOLATION	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
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	Frame clamp
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION	IP66 (with door coupling

(IP), FRONT SIDE	rotary handle) IP40 (with insulating surround)
	IP00 (terminations, phase
DEGREE OF PROTECTION (TERMINATIONS)	isolator and strip terminal)
	IP10 (tunnel terminal)
NUMBER OF POLES	Three-pole
TERMINAL CAPACITY (COPPER STRIP)	Max. 10 segments of 16 mm x 0.8 mm at box terminal 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
LIFESPAN, ELECTRICAL	6500 operations at 415 V AC-3 7500 operations at 400 V AC-1
FUNCTIONS	Short-circuit protection
TYPE	Circuit breaker
SPECIAL FEATURES	<ul> <li>Rated current = rated uninterrupted current: 33 A</li> <li>This circuit-breaker is only allowed to be used for UL/CSA applications.</li> <li>Motor protection in conjunction with contactor and overload relay</li> <li>With short-circuit release</li> <li>Without overload release Ir</li> </ul>
APPLICATION	Branch circuits, feeder circuits
SHOCK RESISTANCE	20 g (half-sinusoidal shock 20 ms)
RELEASE SYSTEM	Thermomagnetic release
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
TERMINAL CAPACITY (CONTROL CABLE)	14 mm² - 18 mm² (1x) 16 mm² - 18 mm² (2x)
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 CONDUCTOR/CABLE)	16 mm² (1x) at tunnel terminal 6 mm² - 12 mm² (1x) at box terminal 6 mm² - 11 mm² (1x) direct at switch rear-side connection
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	4 mm <sup>2</sup> - 350 mm <sup>2</sup> (1x) at tunnel terminal 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 box terminal

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