

## Eaton 113194

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 200A, plug-in module, busbar terminal for CU B, frame 2, A200-SVE

0000	
PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
CATALOG NUMBER	113194
PRODUCT LENGTH/DEPTH	180 mm
PRODUCT HEIGHT	245 mm
PRODUCT WIDTH	105 mm
PRODUCT WEIGHT	2.784 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947 IEC



0000	
AMPERAGE RATING	200 A
VOLTAGE RATING	440 V - 440 V
CIRCUIT BREAKER FRAME TYPE	NZM2
FEATURES	Motor drive optional Protection unit
ACCESSORIES REQUIRED	NZM2-XSVS
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.

00	
CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 050.eps
00000	eaton-circuit-breaker-plug- in-adapter-nzm2- il01219023z.pdf
00	eaton-circuit-breaker- adapter-nzm-mccb- dimensions-002.eps eaton-circuit-breaker-nzm- mccb-dimensions-019.eps

10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
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
POLLUTION DEGREE LIFESPAN, MECHANICAL	3 20000 operations
LIFESPAN, MECHANICAL	20000 operations
LIFESPAN, MECHANICAL UTILIZATION CATEGORY	20000 operations  A (IEC/EN 60947-2)  Built-in device plug-in technique Plug-in unit DIN rail (top hat rail)
LIFESPAN, MECHANICAL UTILIZATION CATEGORY MOUNTING METHOD	20000 operations  A (IEC/EN 60947-2)  Built-in device plug-in technique Plug-in unit DIN rail (top hat rail) mounting optional  Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC
LIFESPAN, MECHANICAL UTILIZATION CATEGORY  MOUNTING METHOD  CLIMATIC PROOFING  EQUIPMENT HEAT DISSIPATION, CURRENT-	20000 operations  A (IEC/EN 60947-2)  Built-in device plug-in technique Plug-in unit DIN rail (top hat rail) mounting optional  Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
LIFESPAN, MECHANICAL  UTILIZATION CATEGORY  MOUNTING METHOD  CLIMATIC PROOFING  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	20000 operations  A (IEC/EN 60947-2)  Built-in device plug-in technique Plug-in unit DIN rail (top hat rail) mounting optional  Damp heat, constant, to IEC 60068-2-78  Damp heat, cyclic, to IEC 60068-2-30  48 W  500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the
LIFESPAN, MECHANICAL  UTILIZATION CATEGORY  MOUNTING METHOD  CLIMATIC PROOFING  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT  ISOLATION  AMBIENT OPERATING	20000 operations  A (IEC/EN 60947-2)  Built-in device plug-in technique Plug-in unit DIN rail (top hat rail) mounting optional  Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30  48 W  500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)

AMBIENT STORAGE TEMPERATURE - MIN	40 °C
NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS)	0
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 (basic degree of protection, in the operating controls area) IP20
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)	IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)
NUMBER OF POLES	Three-pole
TERMINAL CAPACITY (COPPER STRIP)	Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 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 segments of 9 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal
LIFESPAN, ELECTRICAL	7500 operations at 415 V AC-1 10000 operations at 400 V AC-1
FUNCTIONS	System and cable protection
ТҮРЕ	Circuit breaker

SPECIAL FEATURES	<ul> <li>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)</li> <li>Rated current = rated uninterrupted current: 200 A</li> </ul>
APPLICATION	Use in unearthed supply systems at 440 V
SHOCK RESISTANCE	20 g (half-sinusoidal shock 20 ms)
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Front side
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	200 A
POWER LOSS	48 W
RELEASE SYSTEM	Thermomagnetic release
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	85 kA
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	2000 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	1200 A
TERMINAL CAPACITY (CONTROL CABLE)	0.75 mm <sup>2</sup> - 2.5 mm <sup>2</sup> (1x) 0.75 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (2x)
TERMINAL CAPACITY (COPPER BUSBAR)	M8 at rear-side screw connection Max. 24 mm x 8 mm direct at switch rear-side connection Min. 16 mm x 5 mm direct at switch rear-side connection
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	6 mm <sup>2</sup> - 16 mm <sup>2</sup> (2x) direct at switch rear-side connection 16 mm <sup>2</sup> (1x) at tunnel

terminal 10 mm² - 16 mm² (1x) at	
box terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (2x) at box terminal	
TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)  16 mm² (1x) at tunnel terminal	
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)  TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)  25 mm² - 185 mm² (1x) direct at switch rear-side connection 25 mm² - 185 mm² (1x) a 1-hole tunnel terminal 25 mm² - 185 mm² (1x) a box terminal	
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)  25 mm² - 185 mm² (1x) a tunnel terminal	t
HANDLE TYPE Rocker lever	
INSTANTANEOUS CURRENT SETTING (II) - 2000 A MAX	
INSTANTANEOUS CURRENT SETTING (II) - 1200 A MIN	
NUMBER OF OPERATIONS PER HOUR - 120 MAX	
OVERLOAD CURRENT SETTING (IR) - MAX 200 A	
OVERLOAD CURRENT SETTING (IR) - MIN	
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ	
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS 18.5 kA	
(IEC/EN 60947) AT 440 V, 50/60 HZ	

AT 400/415 V, 50/60 HZ	
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	53 kA
STANDARD TERMINALS	Screw terminal
OPTIONAL TERMINALS	Box terminal. Connection on rear. Tunnel terminal
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
RATED INSULATION VOLTAGE (UI)	690 V AC

0000:	
0000:	
000:	
00:	











