Eaton 189599

Eaton Moeller series NZM - Molded Case Circuit Breaker. DC circuit-breaker, 400ADC, 3p, Ii = 2150ADC, Ue=750VDC, overload protection adjustable

PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
CATALOG NUMBER	189599
PRODUCT LENGTH/DEPTH	166 mm
PRODUCT HEIGHT	275 mm
PRODUCT WIDTH	140 mm
PRODUCT WEIGHT	6.109 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947 IEC



400 A
48 V - 750 V
NZM3
Motor drive optional Protection unit
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
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The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Meets the product standard's requirements.
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Meets the product standard's requirements.
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standard's requirements. Meets the product

CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 004.eps
DECLARATIONS OF CONFORMITY	DA-DC-03 N3
	eaton-circuit-breaker-dc- nzm-h-3-a400- il012092zu.pdf

	be evaluated.
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	Is 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	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
POLLUTION DEGREE	3
MOUNTING METHOD	Built-in device fixed built- in technique Fixed
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	73 W
UTILIZATION CATEGORY	A (IEC/EN 60947-2)
ISOLATION	300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
ANADIENT CTODACE	70 °C
AMBIENT STORAGE	70 6

AMBIENT STORAGE TEMPERATURE - MIN NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED 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 LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY DEGREE OF PROTECTION (IP), FRONT SIDE IP66 (with door coupling rotary handle) IP40 (with insulating surround) IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal) NUMBER OF POLES TERMINAL CAPACITY (COPPER STRIP) Max. 10 segments of 16 mm x 0.8 mm at box terminal Min. 6 segments of 16 mm x 0.8 mm at box terminal Min. 6 segments of 16 mm x 0.8 mm at box terminal Min. 6 segments of 16 mm x 0.8 mm at box terminal Min. 6 segments of 16 mm x 0.8 mm at box terminal Min. 6 segments of 16 mm x 0.8 mm at box terminal Min. 6 segments of 16 mm x 1 mm + 5 segments of 24 mm x 1 mm Max. 10 segments of 24 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 24 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 24 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 24 mm x 1 mm at rear- side connection (punched) Max. 8 segments of 24 mm x 1 mm 1 cay) at box		
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		mm x 1 mm (2x) at box

	terminal 10 segments of 50 mm x 1 mm (2x) at rear-side width extension
FUNCTIONS	System and cable protection
ТҮРЕ	Circuit breaker
SPECIAL FEATURES	 Fixed short-circuit releases le 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 Icn) Rated current = rated uninterrupted current: 400 A Terminal capacity hint: Up to 240 mm² can be connected depending on the cable manufacturer.
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)	400 A
RELEASE SYSTEM	Thermomagnetic release
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)	1.7 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	1.7 kA
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING -	2150 A

MAX	
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	2150 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. 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 M10 at rear-side screw connection Max. 10 mm x 50 mm (2x) at rear-side width extension
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	300 mm² (2x) at rear-side width extension 16 mm² (2x) at box terminal 16 mm² (1x) at tunnel terminal 16 mm² (1x) direct at switch rear-side connection 16 mm² (2x) direct at switch rear-side connection
TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	16 mm² (1x) at tunnel terminal
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	25 mm² - 240 mm² (1x) direct at switch rear-side connection 35 mm² - 240 mm² (1x) at box terminal 16 mm² - 185 mm² (1x) at 1-hole tunnel terminal 25 mm² - 120 mm² (2x) at box terminal 25 mm² - 240 mm² (2x) direct at switch rear-side connection
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	50 mm ² - 240 mm ² (1x) at 2-hole tunnel terminal 25 mm ² - 185 mm ² (1x) at tunnel terminal 50 mm ² - 240 mm ² (2x) at 2-hole tunnel terminal
HANDLE TYPE	Rocker lever
SHORT DELAY CURRENT	0 A

SETTING (ISD) - MAX SHORT DELAY CURRENT SETTING (ISD) - MIN INSTANTANEOUS CURRENT SETTING (II) - MAX INSTANTANEOUS CURRENT SETTING (II) - MIN NUMBER OF OPERATIONS PER HOUR- MAX OVERLOAD CURRENT SETTING (IR) - MAX OVERLOAD CURRENT SETTING (IR) - MIN RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 500 V DC RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 500 V DC STANDARD TERMINALS OPTIONAL TERMINALS OPTIONAL TERMINALS RATED SHORT-CIRCUIT MAKING CAPACITY ICS (IEC/EN 60947) AT 750 V DC STANDARD TERMINALS OPTIONAL TERMINALS RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 750 V DC RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS VOLTAGE RATING (DC) 750 V DC RATED INSULATION 750 V DC		
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WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS VOLTAGE RATING (DC) RATED INSULATION 750 V DC	MAKING CAPACITY ICM	30 kA
WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS VOLTAGE RATING (DC) RATED INSULATION 750 V DC	WITHSTAND VOLTAGE (UIMP) AT AUXILIARY	6000 V
RATED INSULATION 750 V DC	WITHSTAND VOLTAGE (UIMP) AT MAIN	8000 V
750 V DC	VOLTAGE RATING (DC)	750 VDC
VOLTAGE (UI)		750 V DC

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
:	



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