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## Eaton 116963

Eaton Moeller series NZM Earth-leakage circuit-breaker 0,03-5 A, 110AC

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<b>PRODUCT NAME</b>	Eaton Moeller series NZM Earth leakage relay
<b>CATALOG NUMBER</b>	116963
<b>PRODUCT LENGTH/DEPTH</b>	80 mm
<b>PRODUCT HEIGHT</b>	45 mm
<b>PRODUCT WIDTH</b>	95 mm
<b>PRODUCT WEIGHT</b>	0.187 kg
<b>COMPLIANCES</b>	IEC RoHS conform
<b>CERTIFICATIONS</b>	IEC 1009 IEC 1008 IEC 755 IEC/EN 60947-2

**FEATURES**

1 integrated changeover contact (relay contact)  
Sealable, setting buttons

**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.

**10.3 DEGREE OF PROTECTION OF ASSEMBLIES**

Does not apply, since the entire switchgear needs to be evaluated.

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[eaton-circuit-breaker-current-nzm-mccb-3d-drawing.eps](#)

<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>FRAME</b>	45 mm NZM1/2/3/4
<b>MOUNTING METHOD</b>	Snap fixing, top-hat rail DIN 46277, IEC/EN 60715
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	50 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-10 °C
<b>CURRENT RATING OF RELAY CONTACT</b>	6 A
<b>DEVICE WIDTH</b>	85 mm
<b>POWER CONSUMPTION</b>	3 W
<b>POWER ON-DELAY TIME - MAX</b>	5000 ms
<b>POWER ON-DELAY TIME - MIN</b>	5000 ms
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	132 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	88 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	132 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	88 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC -</b>	0 V

<b>MAX</b>	
<b>TERMINAL PROTECTION</b>	Finger/back-of-hand proof to BGV A2, VDE 106 part 100
<b>TERMINALS (TOP AND BOTTOM)</b>	Box terminals
<b>VOLTAGE RATING OF RELAY CONTACT</b>	250 V AC / 100 V DC
<b>DELAY TIME</b>	0.02, 0.1, 0.3, 0.5, 1, 3, 5 ms
<b>FUNCTIONS</b>	Delay adjustable
<b>TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)</b>	0.75 mm <sup>2</sup> - 2.5 mm <sup>2</sup> (2x) solid, 0.75 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (2x) flexible/with ferrules 0.75 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (2x) with ferrules
<b>TYPE</b>	Accessory Residual current relays Voltage release
<b>SPECIAL FEATURES</b>	Adjustable fault current and delay time Fault current early warning by flashing, red LED Pulse-current sensitive Integrated auxiliary contact (1 C/O) Ring-type transformer must also be ordered not UL/CSA approved
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>	0 V
<b>RATED FAULT CURRENT - MAX</b>	5 A
<b>RATED FAULT CURRENT - MIN</b>	0.03 A
<b>RATED OPERATING VOLTAGE (UE) - MAX</b>	132 V
<b>SENSITIVITY TYPE</b>	Pulse current sensitive, type A

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:



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