

Measuring and communication module, 300A, 3p



Part no. **NZM2-XMC-MB**
129961

General specifications		
Product name		Eaton Moeller series NZM electronic accessory
Part no.		NZM2-XMC-MB
EAN		4015081272129
Product Length/Depth		209 millimetre
Product height		91 millimetre
Product width		132 millimetre
Product weight		0.7 kilogram
Compliances		IEC RoHS conform
Product Tradename		NZM
Product Type		Accessories
Product Sub Type		Electronic accessory
Delivery program		
Type		Accessory
Accessory/spare part type		Diagnostics and communication
Number of poles		Three-pole
Features		Fieldbus connection over separate bus coupler possible
Frame		NZM2
Fitted with:		Potential separation
Used with		Measuring modules NZM 2 ≤ 300 A
Technical Data - Electrical		
Voltage type		DC
Voltage rating		350 V
Voltage rating - max		600 V AC
Voltage rating at AC		72 V - 600 V
Supply voltage		24 V DC
Supply voltage at AC, 50 Hz - min		0 V
Supply voltage at AC, 50 Hz - max		0 V
Supply voltage at AC, 60 Hz - min		0 V
Supply voltage at AC, 60 Hz - max		0 V
Supply voltage at DC - min		24 V
Supply voltage at DC - max		24 V
Surge voltage		8 kV
Transistor voltage		80 V
Transistor current		50 A
Rated operation current (Ie)		1 A - 300 A AC
Rated operating current at digital outputs in state 1		120 A
Supply current - max		200 mA
Preak current rating - max		30 A
Frequency rating		45 Hz - 200 Hz 45 Hz - 65 Hz
Rated operating frequency		50 Hz
Power pulse rate per kWh		1
Pulse duration		500 / 20 ms
Switching frequency		4 Hz
Accuracy		0.95 % measurement + 0.05 % FS
Impedance		1 kΩ
Isolation		3 Potential isolation

Output type		NPN-isolated transistor
Overtoltage category		Category IV - 600 V
Technical Data - Communication		
Protocol		MODBUS
Technical Data - Mechanical		
Dimensions		209 mm x 132 mm x 91 mm
Suitable for height		2000 mm
Degree of protection		IP20
Conductor type		Phoenix Contact GMVSTBR 2.5-2-ST-7.62
Relative humidity		5 - 95 %
Explosion safety category for dust		None
Explosion safety category for gas		None
Design verification as per IEC/EN 61439 - technical data		
Operating temperature - min		-15 °C
Operating temperature - max		55 °C
Ambient storage temperature - min		-40 °C
Ambient storage temperature - max		80 °C
Design verification as per IEC/EN 61439		
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.
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		Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength		Is 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		Is the panel builder's responsibility.
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.
Additional information		
SIL (IEC 61508)		None

Technical data ETIM 8.0

Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. periphery - communication module (EC001604)			
Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - communications module (ecl@ss10.0.1-27-24-26-08 [BAA073013])			
Supply voltage AC 50 Hz	V		0 - 0
Supply voltage AC 60 Hz	V		0 - 0
Supply voltage DC	V		24 - 24
Voltage type of supply voltage			DC
Supporting protocol for TCP/IP			No
Supporting protocol for PROFIBUS			No

Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
Supporting protocol for Modbus		Yes
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		No
Supporting protocol for SUCONET		No
Supporting protocol for LON		No
Supporting protocol for SERCOS		No
Supporting protocol for PROFINET IO		No
Supporting protocol for PROFINET CBA		No
Supporting protocol for Foundation Fieldbus		No
Supporting protocol for EtherNet/IP		No
Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		No
Radio standard Bluetooth		No
Radio standard Wi-Fi 802.11		No
Radio standard GPRS		No
Radio standard eGPRS		No
Radio standard GSM		No
Radio standard LTE		No
Radio standard UMTS		No
IO link master		No
System accessory		No
Degree of protection (IP)		IP20
With potential separation		Yes
Fieldbus connection over separate bus coupler possible		Yes
Rail mounting possible		No
Wall mounting/direct mounting		Yes
Front built-in possible		No
Rack-assembly possible		No
Suitable for safety functions		No
SIL according to IEC 61508		None
Performance level according to EN ISO 13849-1		None
Appendant operation agent (Ex ia)		No
Appendant operation agent (Ex ib)		No
Explosion safety category for gas		None
Explosion safety category for dust		None
Width	mm	132
Height	mm	91
Depth	mm	209