

Fieldbus connection, profibus-DPV1-Slave



**Part no.** NZM-XDMI-DPV1  
**270333**  
**EL Number** 4359055  
**(Norway)**

General specifications		
Product name		Eaton Moeller series NZM electronic accessory
Part no.		NZM-XDMI-DPV1
EAN		4015082703332
Product Length/Depth		60 millimetre
Product height		90 millimetre
Product width		36 millimetre
Product weight		0.102 kilogram
Compliances		RoHS conform
Certifications		IEC/EN 61000-4 IEC 60068-2-27 EN 55011 EN 55022 IEC 60068-2-6
Product Tradename		NZM
Product Type		Accessories
Product Sub Type		Electronic accessory
Delivery program		
Type		Accessory
Accessory/spare part type		Diagnostics and communication
Accessories required		Separate external bus termination
Special features		10 V (Immunity to line-conducted interference to (IEC/EN 61000-4-6)) Automatic search up to 12 MBit/s EN 50178, UL 508, CSA C22.2, No. 142 (insulation resistance, clearance in air and creepage distances) EN 55011 Class B, EN 55022 Class B (electromagnetic compatibility (EMC), radio interference suppression) Standard screwdriver 0.8mm x 3.5 mm Take appropriate measures to prevent condensation
Used with		Diagnostics, communication
Technical Data - Electrical		
Voltage type		DC
Voltage rating		24 V (-15/+20 %)
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		0 V
Supply voltage at DC - max		0 V
Voltage dips		10 ms
Rated current of power supply		200 mA (24 V DC)
Power supply status display		Power LED (POW): green
Power supply admissable - min		20.4 V DC
Power supply admissable - max		28.8 V DC
EMC of electromagnetic fields rfi (IEC EN 61000-4-3)		10 V/m
EMC of electrostatic air discharge level 3 (IEC/EN 61000-4-2)		8 kV
EMC of electrostatic contact discharge level 3 (IEC/EN 61000-4-2)		6 kV
Residual ripple - max		5 %
Heat dissipation of power supply at 24 V DC		4.8 W
Isolation		Between bus and power supply (simple), between bus and power supply and NZM-XDMI612 (safe potential isolation)
Burst impulse		2 kV

Insulation resistance		acc. to EN 50178
Pollution degree		2 (EMC)
<b>Technical Data - Communication</b>		
Bus addresses		1 - 26 via DMI
Display		Profibus-DP LED (BUS): red
Interface type		RS485
Protocol		PROFIBUS-DP PROFIBUS
Acyclic network services		Display/match protection settings, event list, identification, hours of operation, switching operations, time
Services (cyclic)		Remote operator actuation, display/operation NZM-XDMI612 inputs/outputs, motor starter functions Status ON/OFF/tripped (detailed), load early warnings, phase currents I1/I2/I3 [A]
<b>Technical Data - Mechanical</b>		
Dimensions		35.5 mm x 90 mm x 58 mm
Mounting position		Vertical or horizontal
Corrosion resistance		1 cm <sup>3</sup> /m <sup>3</sup> (4 days SO <sub>2</sub> ) 10 cm <sup>3</sup> /m <sup>3</sup> (4 days SO <sub>2</sub> )
Degree of protection		IP20
Shock resistance		18 impacts (IEC 60068-2-27)
Drop height (IEC/EN 60068-2-31)		50 mm
Packaged free fall height (IEC/EN 60068-2-32)		1 m
Vibrations at constant amplitude .15 mm (IEC/EN 61131-2:2008)		10 Hz - 57 Hz
Relative humidity - max		95 %
Explosion safety category for dust		Other
Explosion safety category for gas		None
Operating air pressure - min		795 hPa
Operating air pressure - max		1080 hPa
Special features		10 V (Immunity to line-conducted interference to (IEC/EN 61000-4-6)) Automatic search up to 12 MBit/s EN 50178, UL 508, CSA C22.2, No. 142 (insulation resistance, clearance in air and creepage distances) EN 55011 Class B, EN 55022 Class B (electromagnetic compatibility (EMC), radio interference suppression) Standard screwdriver 0.8mm x 3.5 mm Take appropriate measures to prevent condensation
<b>Technical Data - Mechanical - Terminals</b>		
Tightening torque		0.6 Nm
Terminal capacity (cable)		0.2 mm <sup>2</sup> - 2.5 mm <sup>2</sup> with ferrule AWG 22 - AWG 12 with ferrule
Terminal capacity (solid wire)		0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> (AWG 22 - AWG 12)
<b>Design verification as per IEC/EN 61439 - technical data</b>		
Ambient operating temperature - min		-25 °C
Ambient storage temperature - min		40 °C
Ambient storage temperature - max		70 °C
<b>Design verification as per IEC/EN 61439</b>		
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.
<b>Additional information</b>		
Functions		Protection against polarity reversal, AS-I power supply PROFIBUS-DP slave
SIL (IEC 61508)		None

## Technical data ETIM 9.0

Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. periphery - communication module (EC001604)		
Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Field bus, decentralized peripheral / Field bus, decentralized peripheral - communications module (ecl@ss13-27-26-08 [BAA073018])		
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	0 - 0
Voltage type (supply voltage)		DC
Number of HW-interfaces CAN		
Number of HW-interfaces industrial Ethernet		
Number of interfaces PROFINET		
Number of HW-interfaces RS-232		
Number of HW-interfaces RS-422		
Number of HW-interfaces RS-485		
Number of HW-interfaces serial TTY		
Number of HW-interfaces USB		
Number of HW-interfaces parallel		
Number of HW-interfaces wireless		
Number of HW-interfaces other		
Supporting protocol for EtherCAT		No
Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		Yes
Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
Supporting protocol for Modbus		No
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 WLAN 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			No
Fieldbus connection over separate bus coupler possible			No
Rail mounting possible			Yes
Wall mounting/direct mounting			No
Front built-in possible			Yes
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			Other
Certified for UL hazardous location class I			No
Certified for UL hazardous location class II			No
Certified for UL hazardous location class III			No
Certified for UL hazardous location division 1			No
Certified for UL hazardous location division 2			No
Certified for UL hazardous location group A (acetylene)			No
Certified for UL hazardous location group B (hydrogen)			No
Certified for UL hazardous location group C (ethylene)			No
Certified for UL hazardous location group D (propane)			No
Certified for UL hazardous location group E (metal dusts)			No
Certified for UL hazardous location group F (carbonaceous dusts)			No
Certified for UL hazardous location group G (non-conductive dusts)			No
Width		mm	36
Height		mm	90
Depth		mm	60