DATASHEET - NZM-XDMI-DPV1

Fieldbus connection, profibus-DPV1-Slave

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

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)
Technical Data - Communication	
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]
Technical Data - Mechanical	
Dimensions	35.5 mm x 90 mm x 58 mm
Mounting position	Vertical or horizontal
Corrosion resistance	1 cm^3/m^3 (4 days SO_2) 10 cm^3/m^3 (4 days SO_2)
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
Technical Data - Mechanical - Terminals	
Tightening torque	0.6 Nm
Terminal capacity (cable)	0.2 mm^2 - 2.5 mm^2 with ferrule AWG 22 - AWG 12 with ferrule
Terminal capacity (solid wire)	0.2 mm^2 - 4 mm^2 (AWG 22 - AWG 12)
Design verification as per IEC/EN 61439 - technical data	
Ambient operating temperature - min	-25 °C
Ambient storage temperature - min	40 °C
Ambient storage temperature - max	70 °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			
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@ss13-27-24-26-08 [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