## DATASHEET - XN-322-18PD-P

Part no.



Field potential distributor module; 18 channels; VCC

XN-322-18PD-P 178770



## **General specifications**

Burst impulse	2 kV, Supply cable
Air discharge	4 kV (Contact discharge) 8 kV (Air discharge)
Electro magnetic compatibility	
Relative humidity	0 - 95 % (non-condensing)
Environmental conditions	Condensation: prevent with appropriate measures
	Dry heat to IEC 60068-2-2
Climatic proofing	Damp heat, constant, to IEC 60068-2-3
Ambient storage temperature - max	85 °C
Ambient operaung temperature - max	-20 °C
Ambient operating temperature - max	60 °C
Air pressure Ambient operating temperature - min	
Air pressure	795 - 1080 hPa (operation)
Climatic environmental conditions	
Vibration resistance	5 - 8.4 / 8.4 -150 Hz, 3,5 mm / 1 g
Shock resistance	15 g, Mechanical, Half-sinusoidal shock 11 ms, 18 Impacts
Mounting position	Horizontal
Height of fall (IEC/EN 60068-2-32) - max	1 m
Ambient conditions, mechanical	
Voltage type	DC
Used with	XN-312 XN300
Туре	XN300 power supply module
Product category	XN-322 power supply module
Pollution degree	3
Overvoltage category	
Mounting method	Rail mounting possible
Degree of protection	IP20
General information	
Features	Fieldbus connection over separate bus coupler possible
Electric connection type	Plug-in connection
Features & Functions	VCC. Power Distribution,18 channels, VCC
Catalog Notes	Power distribution with XN-322 slice module in XN300 I/O system, 18 channels,
Product Type Product Sub Type	Power distributor None
Product Tradename	XN-322
	IEC/EN 61000-6-2 UL508 IEC/EN 61000-6-4 UL File No.: E247993 CE
Certifications	IEC/EN 61131-2
Product weight	0.055 kilogram
Product width	80.3 millimetre
Product Length/Depth Product height	104.2 millimetre 16.8 millimetre
EAN	7640130098343
Part no.	XN-322-18PD-P
Product name	Eaton XN-322 Power distributor
General specifications	

	1 kV, Signal cable
Electromagnetic fields	10 V/m at 0.08 - 1.0 GHz (according to IEC EN 61000-4-3)
	1 V/m at 2 - 2.7 GHz (according to IEC EN 61000-4-3) 3 V/m at 1.4 - 2 GHz (according to IEC EN 61000-4-3)
Emitted interference	40 dB (at 30 - 230 MHz, Class A, radiated, high frequency)
	47 dB (at 230 - 1000 MHz, Class A, radiated, high frequency)
Radiated RFI	10 V
Surge rating	0.5/0.5 kV, Supply cable, balanced/unbalanced), EMC
Valtage dise	1 kV, Signal cable, unbalanced, EMC Voltage dips: 10 ms/Voltage fluctuations: Yes
Voltage dips	voltage ups. To his/voltage nucluations. Tes
Terminal capacities	
Terminal capacity	0.2 - 1.5 mm <sup>2</sup> , solid, H07V-U 0.25 - 1.5 mm <sup>2</sup> , with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) 0.25 - 1.5 mm <sup>2</sup> , with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) 0.2 - 1.5 mm <sup>2</sup> , flexible without ferrule, H07V-K
Causa nin	24 - 16 AWG
Gauge pin Stringing length (main cable)	A1 (according to IEC/EN 60947-1)
Stripping length (main cable)	10 mm
Insulating material group	
Electrical rating	
Rated control supply voltage	24 V (X1, X2, X3, X4, X5, 18 x GND output, Sensor/transmitter supply)
Rated operational voltage	24 V (X5, 2 x input) 160 V (terminations)
Supply voltage at AC, 50 Hz - min	0 V AC
Supply voltage at AC, 50 Hz - max	0 V AC
Supply voltage at DC - min	18 V DC
Supply voltage at DC - max	30 V DC
Communication	
Connection type	Push-in spring-cage terminal (plug-in connection), Connection design in TOP direction
Input/Output	
Load current	Not specified by plug manufacturer
Safety	
Explosion safety category for dust	None
Explosion safety category for gas	None
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	ow
Heat dissipation per pole, current-dependent Pvid	0 W
Rated operational current for specified heat dissipation (In)	0 A
Static heat dissipation, non-current-dependent Pvs	ow
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	Meets the product standard's requirements.
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.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## **Technical data ETIM 9.0**

Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. periphery - power supply/segment module (EC001600)

Electric engineering, automation, process control engineering / Control, Proc segment module (ecl@ss13-27-24-26-10 [BAA071018])	cess Control System (	PCS)/	Field bus, decentralized peripheral / Field bus, decentralized peripheral - feed a
Supply voltage AC 50 Hz		V	0 - 0
Supply voltage AC 60 Hz		V	0 - 0
Supply voltage DC		V	18 - 30
/oltage type (supply voltage)			DC
Number of HW-interfaces industrial Ethernet			0
Number of interfaces PROFINET			0
Number of HW-interfaces RS-232			0
Number of HW-interfaces RS-422			0
Number of HW-interfaces RS-485			0
Number of HW-interfaces serial TTY			0
Number of HW-interfaces parallel			0
lumber of HW-interfaces wireless			0
Number of HW-interfaces USB			0
Number of HW-interfaces other			1
Nith optical interface			No
Supporting protocol for EtherCAT			No
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
upporting protocol for Modbus			No
Supporting protocol for Data-Highway			No
upporting protocol for DeviceNet			No
Supporting protocol for SUCONET			No
Supporting protocol for LON			No
Supporting protocol for PROFINET IO			No
Supporting protocol for PROFINET CBA			No
Supporting protocol for SERCOS			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
upporting protocol for other bus systems			No
ladio standard Bluetooth			No
Radio standard WLAN 802.11			No
Radio standard GPRS			No
Radio standard GSM			No
Radio standard UMTS			No
System accessory			Yes

Beyre of viotecion (IP)         Page         Page         Page           Type of viotecion (IP)         Noncometor         Noncometor           With patenti separation         Noncometor         Noncometor           With patenti separation         Noncometor         Noncometor           Statale as agreent module         Noncometor         Noncometor           Beinde conduct separate bus couple possible         Noncometor         Noncometor           Bid agrands possible         Noncometor         Noncometor           Ball mounting possible         Noncometor         Noncometor           Reck seamby possible         Noncometor         Noncometor           Rock seamby possible         Noncometor         Noncometor           Statabol safety functions         Noncometor         Noncometor           Rock seamby possible         Noncometor         Noncometor           Statabol safety functions         Noncometor         Noncometor           Rock seamby possible         Noncometor         Noncometor           Statabol safety functions         Noncometor         Noncometor           Rock seamby possible         Noncometor         Noncometor           Statabol safety functions         Noncometor         Noncometor           Rock seamby possible	Design of another time (ID)		1000
Win pretrict is signaration         Image module         Image module <t< td=""><td></td><td></td><td></td></t<>			
Wh power suply module         Image: Segment module         No           Suitable as segment module         No           Remote module         No           Beide module         No           Beide module         No           Baid agnostis possible         No           Baid agnostis possible         No           Fort built in possible         No           Suitable for safety functions         No           Su			
Subble is segment module         Image: March			
Amore module         No           Fieldbus connection over separate bus coupler possible         No           Bus diagnois possible         No           Rail mouning possible         No           Auil mouning direct mounting         No           Finat built in possible         No           Rain dum direct mounting         No           Rain dum direct mounting         No           Rain dum direct mounting         No           Stabule for safety functions         No           Stabule for safety functions         No           Stabule for safety functions         No           Appendant operation agent (Exil)         No           Appendant operation agent (Exil)         No           Stabule for safety functions         No           Stabule for safety functions (Stabule for Safety functions (Stabule for Safety fu	With power supply module		No
Fieldsub connection over separate bus coupler possible       P       P         Bud agnosis possible       No         Rail mounting direct mounting       P       P         Forth builts in possible       No         Bud stander for the builts in possible       No         Bud stander for the builts in possible       No         Subsible for starty functions       No         Subsible for starty functions       No         Appendance paration agent (Ex is)       No         Appendance paration agent (Ex is)       No         Subsible for starty functions       No         Subsible for starty functions       No         Subsible for starty functions       No         Appendance paration agent (Ex is)       No         Subsible for starty starting (St is)       No         Subsible for starty functions       No         Subsible for starting (St is)       No         Subsis diare (St is)       No     <	Suitable as segment module		No
Bidiagnosi possible       Nale         Bidiagnosi possible       Yes         Wall mouning/direct mouning       Nale         Font building possible       Nale         Back-assembly possible       Nale         Back-assembly possible       Nale         Suitable for staffy thructions       Nale         Suitable for staffy thruc	Remote module		No
Rain outring possible       Image: Section Sec	Fieldbus connection over separate bus coupler possible		Yes
Wall nouring/direct mounting       Provide Pro	Bus diagnosis possible		No
Fort built-in possible       Image: Section of the secti	Rail mounting possible		Yes
Rack-assembly possible       Image: Sector Sec	Wall mounting/direct mounting		No
Nitable or safety functionsImage: same safety functionsImage: same safety functionsSubacording to EK ISO 3849-1MoAppendant operation agent (Exia)MoAppendant operation agent (Exia)MoAppendant operation agent (Exib)MoExplosion safety category for dustMoExplosion safety category for dustMoCortified for UL hazardous location class IMoCortified for UL hazardous location division 1MoCortified of UL hazardous location group A (actylene)MoCortified of UL hazardous location group A (actylene)MoCort	Front built-in possible		No
Slacording to ENIS0384-1       Me         Apendan operation agent (Exia)       No         Appendant operation agent (Exia)       No         Appendant operation agent (Exia)       No         Appendant operation agent (Exia)       No         Explosion afety category for gas       No         Explosion afety category for dast       No         Cartified for UL hazerdous location class II       Me         Cartified for UL hazerdous location division 1       Me         Cartified for UL hazerdous location quop (Antervenement)       No         Cartified for UL hazerdous location group A (acetylene)       No         Cartified for UL hazerdous location group D (northore)       No         Cartified for UL hazerdous location group D (northore)       No         Cartified for UL hazerdous location group D (northore)       No         Cartified for UL hazerdous location group D (northore)       No         Cartified for UL hazerdous location group D (northore)       No         Cartified for UL hazerdous location group D (northore)       No         Cartified for UL hazerdous location group D (northore)       No         Cartified for UL hazerdous location group D (northore)       No         Cartified for UL hazerdous location group D (northore)       No         Cartified for UL hazerdous location group C (northore	Rack-assembly possible		No
Performance level according to ENISD 13849-1NoneAppendant operation agent (Exia)NoAppendant operation agent (Exib)NoAppendant operation agent (Exib)NoExplosion safety category for gasNoExplosion safety category for dustNoCertified for UL hazardous location class IIMoCertified for UL hazardous location division 1MoCertified for UL hazardous location quop E (network)MoCertified for UL hazardous location group A (acceptence)MoCertified for UL hazardous location group D (propane)MoCertified for UL hazardous location group D (monte dusts)Mo	Suitable for safety functions		No
Apendant operation agent (Ex ia)       No         Appendant operation agent (Ex ia)       No         Explosion safety category for gas       No         Explosion safety category for dust       No         Certified for UL hazardous location class I       No         Certified for UL hazardous location class III       No         Certified for UL hazardous location drass II       No         Certified for UL hazardous location drass III       No         Certified for UL hazardous location group A (acetylene)       No         Certified for UL hazardous location group C (hythene)       No         Certified for UL hazardous location group C (hythene)       No         Certified for UL hazardous location group C (hythene)       No         Certified for UL hazardous location group C (hythene)       No         Certified for UL hazardous location group C (hythene)       No         Certified for UL hazardous location group C (hythene)       No         Certified for UL hazardous location group C (hyt	SIL according to IEC 61508		None
Appendant operation agent (Ex ib)       No         Explosion safety category for gas       No         Explosion safety category for dust       No         Certified for UL hazardous location class I       No         Certified for UL hazardous location class II       No         Certified for UL hazardous location division 1       No         Certified for UL hazardous location group A (acetylene)       No         Certified for UL hazardous location group D (hydrogen)       No         Certified for UL hazardous location group D (propane)       Yo         Certified for UL hazardous location group D (propane)       Yo         Certified for UL hazardous location group D (propane)       Yo         Certified for UL hazardous location group D (propane)       Yo         Certified for UL hazardous location group D (non-conductive dusts)       No         Certified for UL hazardous location group D (non-conductive dusts)       No         Certified for UL hazardous location group D (non-conductive dusts)       No	Performance level according to EN ISO 13849-1		None
Explosion safety category for gas         None           Explosion safety category for dust         None           Certified for UL hazardous location class I         Mone           Certified for UL hazardous location class II         Mone           Certified for UL hazardous location division 1         Mone           Certified for UL hazardous location group A (acetylene)         Mone           Certified for UL hazardous location group D (not popen)         Mone           Certified for UL hazardous location group D (propane)         Mone           Certified for UL hazardous location group D (not popen)         Mone           Certified for UL hazardous location group D (propane)         Mone           Certified for UL hazardous location group D (not popen)         Mone           Certified for UL hazardous location group D (not popen)         Mone           Certified for UL hazardous location group D (not popen)         Mone           Certified for UL hazardous location group D (not popen)         Mone           Certified for UL hazardous location group D (not popen)         Mone           Certified for UL hazardous location group D (none cond usity sof there)	Appendant operation agent (Ex ia)		No
Explosion safety category for dust       Mone         Explosion safety category for dust       None         Certified for UL hazardous location class I       None         Certified for UL hazardous location class II       None         Certified for UL hazardous location class II       None         Certified for UL hazardous location class II       None         Certified for UL hazardous location division 1       None         Certified for UL hazardous location group A (acetylene)       None         Certified for UL hazardous location group B (hydrogen)       None         Certified for UL hazardous location group D (propane)       None         Certified for UL hazardous location group F (carbonaceous dusts)       None         Certified for UL hazardous location group D (propane)       None         Certified for UL hazardous location group D (propane)       None         Certified for UL hazardous location group F (carbonaceous dusts)       None         Certified for UL hazardous location group F (carbonaceous dusts)       None         Certified for UL hazardous location group G (non-conductive dusts)       None         Certified for UL hazardous location group G (non-conductive dusts)       None         Nother       None       None         Mith       Mone       None         Mith       Mone <td< td=""><td>Appendant operation agent (Ex ib)</td><td></td><td>No</td></td<>	Appendant operation agent (Ex ib)		No
Certified for UL hazardous location class I       Image: Section class I       No         Certified for UL hazardous location class II       No       No         Certified for UL hazardous location class II       No       No         Certified for UL hazardous location division 1       No       No         Certified for UL hazardous location division 2       No       No         Certified for UL hazardous location group A (acetylene)       No       No         Certified for UL hazardous location group B (hydrogen)       No       No         Certified for UL hazardous location group D (propane)       No       No         Certified for UL hazardous location group F (carbonaceous dusts)       No       No         Certified for UL hazardous location group F (carbonaceous dusts)       No       No         Certified for UL hazardous location group F (carbonaceous dusts)       No       No         Certified for UL hazardous location group F (carbonaceous dusts)       No       No         Certified for UL hazardous location group F (carbonaceous dusts)       No       No         Certified for UL hazardous location group F (carbonaceous dusts)       No       No         Certified for UL hazardous location group F (carbonaceous dusts)       No       No         Certified for UL hazardous location group F (carbonaceous dusts)       No <td< td=""><td>Explosion safety category for gas</td><td></td><td>None</td></td<>	Explosion safety category for gas		None
Certified for UL hazardous location class II       Model         Certified for UL hazardous location class II       Model         Certified for UL hazardous location division 1       Model         Certified for UL hazardous location division 2       Model         Certified for UL hazardous location group A (acetylene)       Model         Certified for UL hazardous location group D (hydrogen)       Model         Certified for UL hazardous location group D (propane)       Model         Certified for UL hazardous location group D (propane)       Model         Certified for UL hazardous location group D (propane)       Model         Certified for UL hazardous location group D (propane)       Model         Certified for UL hazardous location group D (motane)       Model         Model       Model         Certified for UL hazardous location group D (motane)       Model         Model       Model         Model<	Explosion safety category for dust		None
Cartified for UL hazardous location class III       Model         Certified for UL hazardous location division 1       Model         Certified for UL hazardous location division 2       Model         Certified for UL hazardous location group A (acetylene)       Model         Certified for UL hazardous location group B (hydrogen)       Model         Certified for UL hazardous location group C (ethylene)       Model         Certified for UL hazardous location group D (propane)       Model         Certified for UL hazardous location group F (carbonaceous dusts)       Model         Certified for UL hazardous location group F (carbonaceous dusts)       Model         Certified for UL hazardous location group F (carbonaceous dusts)       Model         Certified for UL hazardous location group F (carbonaceous dusts)       Model         Certified for UL hazardous location group F (carbonaceous dusts)       Model         Certified for UL hazardous location group F (carbonaceous dusts)       Model         Certified for UL hazardous location group F (carbonaceous dusts)       Model         Mith       Model       Model         Height       Model       Model	Certified for UL hazardous location class I		No
Certified for UL hazardous location division 1       Image: Certified for UL hazardous location division 2       No         Certified for UL hazardous location group A (acetylene)       No       No         Certified for UL hazardous location group B (hydrogen)       No       No         Certified for UL hazardous location group D (hydrogen)       No       No         Certified for UL hazardous location group D (propane)       No       No         Certified for UL hazardous location group D (propane)       No       No         Certified for UL hazardous location group D (propane)       No       No         Certified for UL hazardous location group F (carbonaceous dusts)       No       No         Certified for UL hazardous location group G (non-conductive dusts)       No       No         Certified for UL hazardous location group G (non-conductive dusts)       No       No         Certified for UL hazardous location group G (non-conductive dusts)       No       No         Vidth       Mm       8.3       No         Height       Imm       16.3       No	Certified for UL hazardous location class II		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 D (propane)       No         Certified for UL hazardous location group D (propane)       No         Certified for UL hazardous location group D (propane)       No         Certified for UL hazardous location group D (propane)       No         Certified for UL hazardous location group D (metal dusts)       No         Certified for UL hazardous location group D (non-conductive dusts)       No         Certified for UL hazardous location group G (non-conductive dusts)       No         Vidth       Mo         Height       Mo	Certified for UL hazardous location class III		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         Vidth       Max         Height       No	Certified for UL hazardous location division 1		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 E (metal dusts)       No         Certified for UL hazardous location group E (metal dusts)       No         Certified for UL hazardous location group E (metal dusts)       No         Certified for UL hazardous location group E (metal dusts)       No         Vidth       Mo         Height       No	Certified for UL hazardous location division 2		No
Certified for UL hazardous location group C (ethylene)NoCertified for UL hazardous location group D (propane)NoCertified for UL hazardous location group E (metal dusts)NoCertified for UL hazardous location group F (carbonaceous dusts)NoCertified for UL hazardous location group G (non-conductive dusts)NoVidthmmHeightNo	Certified for UL hazardous location group A (acetylene)		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       Mo         Height       Mo	Certified for UL hazardous location group B (hydrogen)		No
Certified for UL hazardous location group E (metal dusts)     Mo       Certified for UL hazardous location group F (carbonaceous dusts)     Mo       Certified for UL hazardous location group G (non-conductive dusts)     Mo       Width     mm     80.3       Height     Ma     16.8	Certified for UL hazardous location group C (ethylene)		No
Certified for UL hazardous location group F (carbonaceous dusts)     No       Certified for UL hazardous location group G (non-conductive dusts)     No       Width     mm       Height     No	Certified for UL hazardous location group D (propane)		No
Certified for UL hazardous location group G (non-conductive dusts)     No       Width     mm     80.3       Height     mm     16.8	Certified for UL hazardous location group E (metal dusts)		No
Widthmm80.3Heightmm16.8	Certified for UL hazardous location group F (carbonaceous dusts)		No
Height mm 16.8	Certified for UL hazardous location group G (non-conductive dusts)		No
-	Width	mm	80.3
Depth mm 104.2	Height	mm	16.8
	Depth	mm	104.2