Power supply module XI/ON, 24 V DC

Part no. XN-PF-24VDC-D

140070

EL Number 4520632

(Norway)



General specifications	
Product name	Eaton XN Power supply module
Part no.	XN-PF-24VDC-D
EAN	7640130121027
Product Length/Depth	55.4 millimetre
Product height	74.1 millimetre
Product width	12.6 millimetre
Product weight	0.025 kilogram
Certifications	Certified by UL for use in Canada UL report applies to both US and Canada IEC/EN 61131-2 UL Recognized CE CSA-C22.2 No. 142 UL 508 IEC/EN 6113-2 IEC/EN 61000-6-4 UL File No.: E205091 UL Category Control No.: NRAQ, NRAQ7 IEC/EN 61000-6-2 CSA Class No.: 2252-01, 2252-81 CULus
Product Tradename	XN
Product Type	Power supply module
Product Sub Type	None
Features & Functions	
Electric connection type	Screw-/spring clamp connection
Features	Fieldbus connection over separate bus coupler possible
Fitted with:	Potential separation
Functions	Bus diagnosis possible
General information	
Admissible range	18 - 30 V DC, Supply module
Current consumption	28 mA, from module bus, Supply modules
Degree of protection	IP20
Mounting method	Rail mounting possible
Product category	XN Slice module
Residual ripple	< 5 % (according to EN 61131-2)
Suitable for	Base modules with C-connection: 4-wire Base modules without C-Connection: 2-/3-wire
Suitable as	Segment module
Туре	XI/ON power supply module
Used with	XN-P3T-SBB XN-P4S-SBBC XN-P3S-SBB XN-P4T-SBBC
Voltage type	DC
Ambient conditions, mechanical	
Drop and topple	According to IEC 60068-2-31, free fall according to IEC 60068-2-32
Shock resistance	Mechanical, According to IEC/EN 60068-2-27 Continuous according to IEC/EN 60068-2-29
Vibration resistance	According to IEC/EN 60068-2-6
Climatic environmental conditions	
Ambient operating temperature - min	0 °C
Ambient operating temperature - max	55 °C
Ambient storage temperature - min	-25 °C

Ambient storage temperature - max	85 °C
Environmental conditions	Harmful gasses - H2S: 1 ppm (relative humidity < 75%, no condensation) Harmful gasses - SO2: 10 ppm (relative humidity < 75%, no condensation)
Relative humidity	5 - 95 % (indoor, Level RH-2, non-condensing for storage at 45°C)
Electro magnetic compatibility	
Air discharge	According to EN 61000-4-2
Burst impulse	According to IEC/EN 61000-4-4
Electromagnetic fields	According to IEC EN 61100-4-2
Emitted interference	230 - 1000 MHz (radiated, high frequency, according to EN 55016-2-3) 30 - 230 MHz (radiated, high frequency, according to EN 55016-2-3)
Radiated RFI	IEC/EN 61100-4-6
Surge rating	According to IEC/EN 61000-4-5 Level 4
Voltage dips	According to EN 61131-2 (Voltage fluctuations/voltage dips)
Electrical rating	
Power loss	Normally 1.3 W
Rated insulation voltage (Ui)	500 V
Supply current	10 A, IEI, Maximum operating current, Supply modules
Supply voltage at AC, 50 Hz - min	0 V AC
Supply voltage at AC, 50 Hz - max	0 V AC
Supply voltage at AC, 30 112 - max Supply voltage at DC - min	18 V DC
Supply voltage at DC - max	30 V DC
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Communication	
Field voltage	24 V DC (UL)
Number of bytes	4 diagnostic bytes
Protocol	Other bus systems
Safety	
Explosion safety category for dust	None
Explosion safety category for gas	None
Potential isolation	Through optocoupler: yes
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
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	1.3 W
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.
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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.

Technical data ETIM 9.0

Technical data Ethiyi 9.0				
Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. peripher				
Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Field bus, decentralized peripheral / Field bus, decentralized peripheral - feed and segment module (ecl@ss13-27-24-26-10 [BAA071018])				
Supply voltage AC 50 Hz	V	0 - 0		
Supply voltage AC 60 Hz	V	0 - 0		
Supply voltage DC	V	18 - 30		
Voltage 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		
Number of HW-interfaces wireless		0		
Number of HW-interfaces USB		0		
Number of HW-interfaces other		1		
With 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		
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 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		
Supporting protocol for other bus systems		Yes		
Radio standard Bluetooth		No		
Radio standard WLAN 802.11		No		
Radio standard GPRS		No		
Radio standard GSM		No		
Radio standard UMTS		No		
System accessory		Yes		
Degree of protection (IP)		IP20		
Type of electric connection		Screw-/spring clamp connection		
With potential separation		Yes		
With power supply module		No		
Suitable as segment module		Yes		
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Remote module		No
Fieldbus connection over separate bus coupler possible		Yes
Bus diagnosis possible		Yes
Rail mounting possible		Yes
Wall mounting/direct mounting		No
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
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	12.6
Height	mm	74.1
Depth	mm	55.4