DATASHEET - XN-PF-24VDC-D



Power supply module XI/ON, 24 V DC

Part no. XN-PF-24VDC-D Catalog No. 140070

EL-Nummer (Norway) 0004520632



Delivery program

Function	XI/ON power supply modules
Function	XN Slice module
Short Description	Field power supply module with 24 V DC nominal voltage
For use with	XN-P3T-SBB XN-P3S-SBB XN-P4T-SBBC XN-P4S-SBBC

Technical data

General			
Standards			EN 61000-6-2 EN 61000-6-4 EN 61131-2
Potential isolation			Yes, through optocoupler
Ambient temperature		°C	0 - +55
Storage	θ	°C	-25 - +85
Relative humidity			5 - 95 % (indoor), Level RH-2, no condensation (for storage at 45°C)
Harmful gases		ppm	SO ₂ : 10 (rel. humidity < 75%, no condensation) H ₂ S: 1.0 (rel. humidity < 75 %,no condensation)
Vibration resistance, operating conditions			according to IEC/EN 60068-2-6
Mechanical shock resistance		g	according to IEC 60068-2-27
Continuous shock resistance (IEC/EN 60068-2-29)			According to IEC 60068-2-29
Drop and topple			According to IEC 60068-2-31, free fall according to IEC 60068-2-32
Degree of Protection			IP20
Electromagnetic compatibility (EMC)			
ESD	Air/contact discharge	kV	EN 61000-4-2
Electromagnetic fields	(0.081) / (1,42) / (2 2,7) GHz	V/m	EN 61100-4-2
Burst			EN 61100-4-4
Surge			EN 61100-4-5
Radiated RFI		V	EN 61100-4-6
Emitted interference (radiated, high frequency)	(30230 MHz) / (2301000 MHz)	dB	EN 55016-2-3
Voltage fluctuations/voltage dips			EN 61131-2
Type test			to EN 61131-2
Approvals			CE, cULus
Other technical data (sheet catalogue)			Technical Data
Supply modules			
Field voltage	UL		24 V DC
Admissible range			18-30 V DC

and the American			
Field voltage	U_{L}		24 V DC
Admissible range			18-30 V DC
Rated current consumption from module bus	I _{MB}	mA	≦ 28
Rated insulation voltage	Ui	V AC	500

Residual ripple		%	According to EN 61131-2; ripple < 5
Maximum operating current	I _{EI}	Α	10
Number of diagnostic bytes			4
Base module without gateway power supply			
without C connection			2-/3-wire XN-P3x-SBB
with C connection			4-wire XN-P4x-SBBC
Power loss	P	W	1.3

Notes

Permissible range for field voltage U_L:

As per EN 61131-2 (18 - 30 V DC)

Design verification as per IEC/EN 61439

boolgii vormoution do por 120, 211 or 100			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	1.3
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	55
Degree of Protection			IP20
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties			
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 7.0

PLC's (EG000024) / Fieldbus, decentr. periphery - power supply/segment module (EC001600)

Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - feed and segment module (ecl@ss10.0.1-27-24-26-10 [BAA071013])

(ecl@ss10.0.1-27-24-26-10 [BAA071013])		
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0

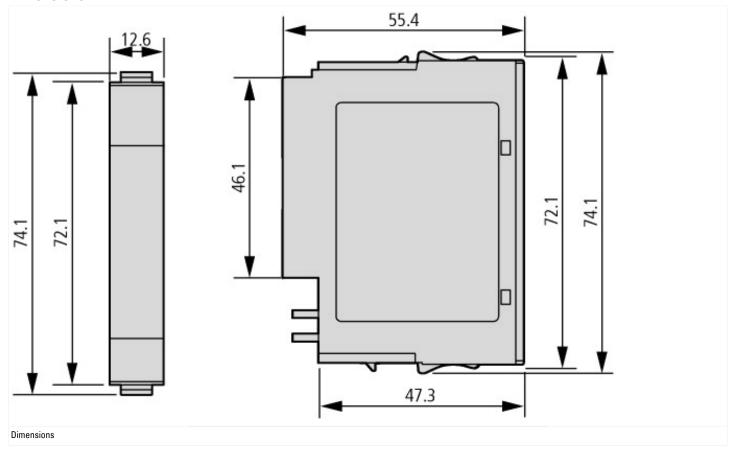
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Wall mounting/direct mounting No Front build in possible No			
Front build in possible No			
rack-assembly possible No			
Suitable for safety functions No			No
Category according to EN 954-1	Category according to EN 954-1		

SIL according to IEC 61508		None
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Performance level acc. 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	12.6
Height	mm	74.1
Depth	mm	55.4

Approvals

Product Standards	UL 508; CSA-C22.2 No. 142; IEC/EN 6113-2; CE marking
UL File No.	E205091
UL Category Control No.	NRAQ, NRAQ7
CSA File No.	UL report applies to both US and Canada
CSA Class No.	2252-01, 2252-81
North America Certification	UL recognized, certified by UL for use in Canada
Specially designed for North America	No
Current Limiting Circuit-Breaker	No
Degree of Protection	IEC: IP20, UL/CSA Type: -

Dimensions



Additional product information (links)

Additional product informa	Additional product information (links)			
Manual Digital XI/ON modules, power supply module MN05002010Z				
Benutzerhandbuch XI/ON-Module, Stromversorgungsmodul MN05002010Z - Deutsch	https://es-assets.eaton.com/D0CUMENTATION/AWB_MANUALS/MN05002010Z_DE.pdf			
Manual Digital XI/ON modules, power supply module MN05002010Z - English	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05002010Z_EN.pdf			
Technical Data	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=14.111			