## Bus refreshing module XI/ON, 24 V DC

Part no. XN-BR-24VDC-D

140071 4520627

EL Number (Norway)



Concretenceifications	
General specifications	E. MIR. C. II.
Product name	Eaton XN Bus refreshing module
Part no.	XN-BR-24VDC-D
EAN	7640130120518
Product Length/Depth	55.4 millimetre
Product height	74.1 millimetre
Product width	12.6 millimetre
Product weight	0.037 kilogram
Compliances	CE Marked RoHS Compliant
Certifications	UL Listed IEC/EN 61000-6-2 CULus Certified by UL for use in Canada UL File No.: E205091 CE UL Category Control No.: NRAQ, NRAQ7 UL 508 IEC/EN 61131-2 IEC/EN 61000-6-4 UL report applies to both US and Canada CSA-C22.2 No. 142 IEC/EN 6113-2 CSA Class No.: 2252-01, 2252-81 UL Recognized
Product Tradename	XN
Product Type	Bus refreshing module
Product Sub Type	None
Catalog Notes	System power supply 24 V DC for generation of power for module bus and gatewa (XN-GW ) $$
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
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 without C-Connection: 2-/3-wire Base modules with C-connection: 4-wire
Suitable as	Segment module
Туре	XI/ON power supply module
Used with	XN-P3T-SBB XN-P3S-SBB XN-P4S-SBBC-B XN-P4S-SBBC, XN-P3T-SBB-B XN-P4T-SBBC XN-P4T-SBBC-B XN-P3S-SBB-B XN-P3S-SBB-B XN-P3S-SBB-B XN-P3T-SBB-B
Voltage type	DC
Ambient conditions, mechanical	
	According to IEC 60068-2-31, free fall according to IEC 60068-2-32
Drop and topple	According to IEC 00000-2-31, free fall according to IEC 00000-2-32

- S02: 10 ppm (relative humidity < 75%, no condensation) - H2S: 1 ppm (relative humidity < 75%, no condensation) Level RH-2, non-condensing for storage at 45°C)  I 61000-4-2 C/EN 61000-4-4 C EN 61100-4-2 diated, high frequency, according to EN 55016-2-3) radiated, high frequency, according to EN 55016-2-3) 6 C/EN 61000-4-5 Level 4 I 61131-2 (Voltage fluctuations/voltage dips)
- H2S: 1 ppm (relative humidity < 75%, no condensation)  Level RH-2, non-condensing for storage at 45°C)  I 61000-4-2  C/EN 61000-4-4  C EN 61100-4-2  diated, high frequency, according to EN 55016-2-3) radiated, high frequency, according to EN 55016-2-3)  6  C/EN 61000-4-5 Level 4  I 61131-2 (Voltage fluctuations/voltage dips)
- H2S: 1 ppm (relative humidity < 75%, no condensation)  Level RH-2, non-condensing for storage at 45°C)  I 61000-4-2  C/EN 61000-4-4  C EN 61100-4-2  diated, high frequency, according to EN 55016-2-3) radiated, high frequency, according to EN 55016-2-3)  6  C/EN 61000-4-5 Level 4  I 61131-2 (Voltage fluctuations/voltage dips)
- H2S: 1 ppm (relative humidity < 75%, no condensation)  Level RH-2, non-condensing for storage at 45°C)  I 61000-4-2  C/EN 61000-4-4  C EN 61100-4-2  diated, high frequency, according to EN 55016-2-3) radiated, high frequency, according to EN 55016-2-3)  6  C/EN 61000-4-5 Level 4  I 61131-2 (Voltage fluctuations/voltage dips)
- H2S: 1 ppm (relative humidity < 75%, no condensation)  Level RH-2, non-condensing for storage at 45°C)  I 61000-4-2  C/EN 61000-4-4  C EN 61100-4-2  diated, high frequency, according to EN 55016-2-3) radiated, high frequency, according to EN 55016-2-3)  6  C/EN 61000-4-5 Level 4  I 61131-2 (Voltage fluctuations/voltage dips)
- H2S: 1 ppm (relative humidity < 75%, no condensation)  Level RH-2, non-condensing for storage at 45°C)  1 61000-4-2  C/EN 61000-4-4  C EN 61100-4-2  diated, high frequency, according to EN 55016-2-3) radiated, high frequency, according to EN 55016-2-3)  6  C/EN 61000-4-5 Level 4  1 61131-2 (Voltage fluctuations/voltage dips)
- H2S: 1 ppm (relative humidity < 75%, no condensation)  Level RH-2, non-condensing for storage at 45°C)  1 61000-4-2  C/EN 61000-4-4  C EN 61100-4-2  diated, high frequency, according to EN 55016-2-3) radiated, high frequency, according to EN 55016-2-3)  6  C/EN 61000-4-5 Level 4  1 61131-2 (Voltage fluctuations/voltage dips)
C/EN 61000-4-2 C/EN 61000-4-4 C/EN 61100-4-2 diated, high frequency, according to EN 55016-2-3) radiated, high frequency, according to EN 55016-2-3) 6 C/EN 61000-4-5 Level 4 I 61131-2 (Voltage fluctuations/voltage dips)
C/EN 61000-4-4 C EN 61100-4-2 diated, high frequency, according to EN 55016-2-3) radiated, high frequency, according to EN 55016-2-3) 6 C/EN 61000-4-5 Level 4 I 61131-2 (Voltage fluctuations/voltage dips)
C/EN 61000-4-4 C EN 61100-4-2 diated, high frequency, according to EN 55016-2-3) radiated, high frequency, according to EN 55016-2-3) 6 C/EN 61000-4-5 Level 4 I 61131-2 (Voltage fluctuations/voltage dips)
C EN 61100-4-2 diated, high frequency, according to EN 55016-2-3) radiated, high frequency, according to EN 55016-2-3) 6 C/EN 61000-4-5 Level 4 61131-2 (Voltage fluctuations/voltage dips)
diated, high frequency, according to EN 55016-2-3) radiated, high frequency, according to EN 55016-2-3) 6 C/EN 61000-4-5 Level 4 I 61131-2 (Voltage fluctuations/voltage dips)
radiated, high frequency, according to EN 55016-2-3)  6  C/EN 61000-4-5 Level 4  61131-2 (Voltage fluctuations/voltage dips)
C/EN 61000-4-5 Level 4   61131-2 (Voltage fluctuations/voltage dips)
61131-2 (Voltage fluctuations/voltage dips)
mum system supply current, Supply modules
um operating current, Supply modules
es
ms
upler: yes
2001. 100
int atandard's requirements
act standard's requirements.
uct standard's requirements.
uct standard's requirements.  uct standard's requirements.
·
ect standard's requirements
ict standard's requirements.
since the entire switchgear needs to be evaluated.
since the entire switchgear needs to be evaluated.
since the entire switchgear needs to be evaluated. since the entire switchgear needs to be evaluated. uct standard's requirements.
since the entire switchgear needs to be evaluated. since the entire switchgear needs to be evaluated. uct standard's requirements. uct standard's requirements.
since the entire switchgear needs to be evaluated. since the entire switchgear needs to be evaluated. uct standard's requirements. uct standard's requirements. uct standard's requirements.
since the entire switchgear needs to be evaluated. since the entire switchgear needs to be evaluated. uct standard's requirements. uct standard's requirements. uct standard's requirements. since the entire switchgear needs to be evaluated.
since the entire switchgear needs to be evaluated. since the entire switchgear needs to be evaluated. uct standard's requirements. uct standard's requirements. uct standard's requirements.
du du du

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, Process Control System (PCS) / Field bus, decentralized peripheral / Field bus, decentralized peripheral - feed and segment module (eci@ss13-27-24-26-10 [BAA071018])

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
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