DATASHEET - XN-B3S-SBB

Base module block XI/ON, screw, 3 connection levels

Part no. **XN-B3S-SBB**
140137

Powering Business Worldwide

General specifications

Product name	Eaton XN Rack
Part no.	XN-B3S-SBB
EAN	7640130120419
Product Length/Depth	117.6 millimetre
Product height	49.9 millimetre
Product width	100.8 millimetre
Product weight	0.287 kilogram
Certifications	IEC/EN 61131-2 CSA-C22.2 No. 142 CE, cUL CSA Class No.: 2252-01, 2252-81 IEC/EN 6113-2 UL 508 Rated data for terminations according to IEC/EN 60947-7-1 UL Category Control No.: NRAQ, NRAQ7 UL report applies to both US and Canada IEC/EN 61000-6-4 UL File No.: E205091 Certified by UL for use in Canada IEC/EN 61000-6-2 UL Recognized CE
Product Tradename	XN
Product Type	Rack
Product Sub Type	None

Features & Functions

Fitted with:	Pluggable modules, analog I/O Pluggable modules, digital I/O Pluggable modules, central modules

General information

Degree of protection	IP20
Mounting method	Rail mounting possible
Number of connection levels	3
Type	XI/ON block base module
Used with	XN-16DI-24VDC-P
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	Continuous according to IEC/EN 60068-2-29 Mechanical, According to IEC/EN 60068-2-27
Vibration resistance	According to IEC/EN 60068-2-6

Climatic environmental conditions

Ambient operating temperature - min	0 °C
Ambient operating temperature - max	55 °C
Environmental conditions	Harmful gases - H2S: 1 ppm (relative humidity < 75%, no condensation) Harmful gases - 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	Air/contact discharge according to IEC/EN 61000-4-2
Burst impulse	According to IEC/EN 61000-4-4
Electromagnetic fields	According to IEC EN 61100-4-2
Emitted interference	30 - 230 MHz (radiated, high frequency, according to EN 55016-2-3) 230 - 1000 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)
Terminal capacities	
Terminal capacity	0.5 - 2.5 mm², solid, H07V-U 0.5 - 1.5 mm², with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) 0.5 - 1.5 mm², with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) 0.5 - 1.5 mm², flexible without ferrule, H07V-K
Gauge pin	A1 (according to IEC/EN 60947-1)
Stripping length (main cable)	8 mm
Communication	
Connection type	Spring-loaded/screw terminal, Connection design in TOP direction
Number of slots	1
Input/Output	
Input current at AC - max	0 A
Input voltage at AC 50 Hz - min	0 V
Input voltage at AC 50 Hz - max	0 V
Input voltage at DC - min	0 V
Input voltage at DC - max	0 V
Output current at AC, 50 Hz - max	0 A
Output voltage at AC 50 Hz - max	0 V
Output voltage at DC - min	0 V
Output voltage at DC - max	0 V
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	0 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.
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 - mounting frame (EC001598)

Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Field bus, decentralized peripheral / Field bus, decentralized peripheral - module carrier (ecl@ss13-27-24-26-03 [BAA064018])

With integrated power supply			No
Input voltage AC 50 Hz		V	0 - 0
Input voltage AC 60 Hz		V	0 - 0
Input voltage DC		V	0 - 0
Type of voltage (input voltage)			DC
Max. input current AC 50 Hz		A	0
Max. input current AC 60 Hz		A	0
Max. input current DC		A	0
Output voltage AC 50 Hz		V	0 - 0
Output voltage AC 60 Hz		V	0 - 0
Output voltage DC		V	0 - 0
Type of output voltage			DC
Max. output current AC 50 Hz		A	0
Max. output current AC 60 Hz		A	0
Max. output current DC		A	0
System accessory			Yes
Number of slots			1
With pluggable modules, digital I/O			Yes
With pluggable modules, analogue I/O			Yes
With pluggable modules, communication modules			No
With pluggable modules, function and technology modules			No
With pluggable modules, central modules			Yes
With pluggable modules, others			No
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
Width		mm	100.8
Height		mm	49.9
Depth		mm	117.6

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