

**Part no.**                    **XN-S4S-SBCS**  
**140091**

<b>General specifications</b>		
Product name		Eaton XN Rack
Part no.		XN-S4S-SBCS
EAN		7640130121201
Product Length/Depth		128.9 millimetre
Product height		49.9 millimetre
Product width		12.6 millimetre
Product weight		0.051 kilogram
Certifications		IEC/EN 61000-6-4 Certified by UL for use in Canada IEC/EN 61131-2 CSA-C22.2 No. 142 Rated data for terminations according to IEC/EN 60947-7-1 UL report applies to both US and Canada UL 508 IEC/EN 6113-2 IEC/EN 61000-6-2 CE CSA Class No.: 2252-01, 2252-81 UL Recognized CE, cUL UL Category Control No.: NRAQ, NRAQ7 UL File No.: E205091
Product Tradename		XN
Product Type		Rack
Product Sub Type		None
<b>Features &amp; Functions</b>		
Fitted with:		Pluggable modules, central modules Pluggable modules, digital I/O Power supply
<b>General information</b>		
Degree of protection		IP20
Mounting method		Rail mounting possible
Number of connection levels		4
Type		XI/ON slice card base module
Used with		XN-2DO-24VDC-2A-P XN-4DO-24VDC-0.5A-P XN-2DO-24VDC-0.5A-P XN-2DO-R-NC XN-2DO-24VDC-0.5A-N XN-2DO-R-NO XN-2DO-120/230VAC-0.5A
Voltage type		DC
<b>Ambient conditions, mechanical</b>		
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
<b>Climatic environmental conditions</b>		
Ambient operating temperature - min		0 °C
Ambient operating temperature - max		55 °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)
<b>Electro magnetic compatibility</b>		
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		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)
<b>Terminal capacities</b>		
Terminal capacity		0.5 - 1.5 mm <sup>2</sup> , flexible without ferrule, H07V-K 0.5 - 2.5 mm <sup>2</sup> , solid, H07V-U 0.5 - 1.5 mm <sup>2</sup> , with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) 0.5 - 1.5 mm <sup>2</sup> , with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)
Gauge pin		A1 (according to IEC/EN 60947-1)
Stripping length (main cable)		8 mm
<b>Communication</b>		
Connection		Connection to C rail
Connection type		Spring-loaded/screw terminal, Connection design in TOP direction
Number of slots		1
<b>Input/Output</b>		
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
<b>Safety</b>		
Explosion safety category for dust		None
Explosion safety category for gas		None
Potential isolation		Through optocoupler: yes
<b>Design verification</b>		
Equipment heat dissipation, current-dependent P <sub>vid</sub>		0 W
Heat dissipation capacity P <sub>diss</sub>		0 W
Heat dissipation per pole, current-dependent P <sub>vid</sub>		0 W
Rated operational current for specified heat dissipation (I <sub>n</sub> )		0 A
Static heat dissipation, non-current-dependent P <sub>vs</sub>		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			Yes
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			No
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		12.6
Height	mm		49.9
Depth	mm		128.9