Base module block XI/ON, tension spring, 3 connection levels, con. to ${\bf C}$ rail



Part no. XN-B3T-SBC

140134

EL Number

4520648

(N	0	r١	N	a	y

General specifications	
Product name	Eaton XN Rack
Part no.	XN-B3T-SBC
EAN	7640130120440
Product Length/Depth	117.6 millimetre
Product height	49.9 millimetre
Product width	100.8 millimetre
Product weight	0.206 kilogram
Certifications	UL Category Control No.: NRAQ, NRAQ7 UL File No.: E205091 CSA-C22.2 No. 142 CSA Class No.: 2252-01, 2252-81 CE CE, cUL Rated data for terminations according to IEC/EN 60947-7-1 UL report applies to both US and Canada Certified by UL for use in Canada IEC/EN 61131-2 UL Recognized UL 508 IEC/EN 61000-6-2 IEC/EN 61000-6-4
Product Tradename	XN
Product Type	Rack
Product Sub Type	None
Features & Functions	
Fitted with: General information	Pluggable modules, digital I/O Pluggable modules, central modules
Degree of protection	IP20
Mounting method	Rail mounting possible
Number of connection levels	3
Type	XI/ON block base module
Used with	XN-16D0-24VDC-0.5-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	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
Environmental conditions	Harmful gasses - SO2: 10 ppm (relative humidity < 75%, no condensation) Harmful gasses - H2S: 1 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)
Ferminal capacities	
Terminal capacity	0.5 - 1.5 mm², with ferrules without plastic collar according to DIN 46228-1 (ferrul crimped gas-tight) 0.5 - 1.5 mm², flexible without ferrule, H07V-K 0.5 - 1.5 mm², with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) 0.5 - 2.5 mm², solid, H07V-U
Gauge pin	A1 (according to IEC/EN 60947-1)
Stripping length (main cable)	8 mm
Communication	
Connection	Connection to C rail
Connection type	Spring-loaded/screw terminal, Connection design in TOP direction
Number of slots	1
nput/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.

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 Impart vallage AC 501 ft V 0 Inpart vallage AC 501 ft V 0 Inpart vallage AC 501 ft V 0 Type of vallage (Not vallage) V 0 Max. Input current AC 501 ft A 0 Max. Input current AC 501 ft A 0 Max. Input current AC 501 ft C 0 Output vallage AC 501 ft Q 0 Max. Cutty current AC 501 ft A 0 Mix. Cutty current AC 501 ft A 0 Mix. Cutty current AC 501 ft 0 0 Mix. Cut	(ecl@ss13-27-24-26-03 [BAA064018])		
Input voltage AC 60 Hz V 0 - 0 Input voltage DC V 0 - 0 Type of voltage (input voltage) V 0 - 0 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 50 Hz V 0 - 0 Output voltage AC 50 Hz V 0 - 0 Output voltage AC 50 Hz V 0 - 0 Output voltage AC 50 Hz V 0 - 0 Max. output current AC 50 Hz A 0 Max. output current DC A 0 <tr< td=""><td>With integrated power supply</td><td></td><td>No</td></tr<>	With integrated power supply		No
Input voltage (Input voltage) V 0 Type of voltage (Input voltage) C C Max. input current AC 50 Nz A 0 Max. input current AC 50 Nz A 0 Max. input current DC A 0 Output voltage AC 50 Nz V 0 0 Output voltage AC 60 Nz V 0 0 Output voltage AC 60 Nz V 0 0 Max. output current AC 50 Nz V 0 0 Max. output current AC 50 Nz A 0 0 Max. output current AC 50 Nz A 0 0 Max. output current AC 50 Nz A 0 0 Max. output current AC 50 Nz A 0 0 Max. output current AC 50 Nz A 0 0 Victory Experts V Yes Number of slots A 0 0 With pluggable modules, digital VO N N 0 With pluggable modules, formunication and tachnology modules Yes N<	Input voltage AC 50 Hz	V	0 - 0
Type of voltage (input voltage) C DC Max. input current AC 50 Hz A 0 Max. input current AC 60 Hz A 0 Max. input current AC 60 Hz A 0 Output voltage AC 50 Hz V 0 0 Output voltage AC 60 Hz V 0 0 Output voltage AC 50 Hz V 0 0 Output voltage AC 50 Hz V 0 0 Output voltage AC 50 Hz V 0 0 Max. output current AC 50 Hz C C C Max. output current AC 50 Hz A 0 C Max. output current AC 50 Hz A 0 C Max. output current AC 50 Hz A 0 C Max. output current AC 50 Hz A 0 C Max. output current AC 50 Hz A 0 C Min. youtput current AC 50 Hz A 0 C With pluggable modules, depital VO Yes N N With pluggable modules, current al modul	Input voltage AC 60 Hz	V	0 - 0
Max. input current AC 50 Hz A 0 Max. input current AC 50 Hz A 0 Max. input current AC 50 Hz A 0 Output voltage AC 50 Hz V 0 - 0 Output voltage AC 60 Hz V 0 - 0 Output voltage DC V 0 - 0 Max. output current AC 50 Hz A 0 Max. output current AC 50 Hz A 0 Max. output current AC 50 Hz A 0 Max. output current AC 50 Hz Y Yes Max. output current AC 50 Hz Y Yes Number of slots A 0 0 With pluggable modules, digital I/O Y Yes With pluggable modules, communication modules Y Yes With pluggable modules, current modules Y Yes With pluggable modules, current modules Y Yes With pluggable modules, current modules Y Yes Will mounting possible Y Yes Racin assembly possible Y Yes Sit according to EC 61508	Input voltage DC	V	0 - 0
Max. injust current QC 0Hz A 0 Max. injust current DC A 0 Outquit voltage AC 50 Hz V 0 0 Outquit voltage AC 50 Hz V 0 0 Type of output voltage V 0 0 Type of output voltage V 0 0 Max. output current AC 50 Hz A 0 0 Max. output current AC 50 Hz A 0 0 Max. output current AC 50 Hz A 0 0 Max. output current AC 50 Hz A 0 0 Max. output current AC 50 Hz B Yes Number of slots Y Yes With pluggable modules, digital I/O Yes 0 With pluggable modules, analogue I/O Yes 0 With pluggable modules, communication modules Yes 0 With pluggable modules, contral modules Yes 0 With pluggable modules, contral modules Yes 0 With pluggable modules, contral modules Yes 0 <td>Type of voltage (input voltage)</td> <td></td> <td>DC</td>	Type of voltage (input voltage)		DC
Max. input current DC A D Output voltage AC 50 Hz V 0 - 0 Output voltage AC 50 Hz V 0 - 0 Output voltage AC 50 Hz V 0 - 0 Output voltage AC 50 Hz V 0 - 0 Max. output current AC 50 Hz A 0 Max. output current AC 60 Hz A 0 Max. output current DC A 0 System accessory B 1 1 Number of slots 1 1 1 With pluggable modules, digital I/O Y No No With pluggable modules, comunication modules Y No No With pluggable modules, function and technology modules Y No No With pluggable modules, central modules Y No No With pluggable modules, commiction modules Y No No With pluggable modules, commiction on modules Y No No With pluggable modules, commiction on modules Y No No Wall mounting possib	Max. input current AC 50 Hz	Α	0
Output voltage AC 50 Hz V 0 - 0 Output voltage AC 68 Hz V 0 - 0 Type of output voltage DC V 0 - 0 Type of output voltage Max. output current AC 50 Hz A 0 Max. output current AC 50 Hz A 0 Max. output current AC 60 Hz A 0 Max. output current AC 60 Hz A 0 Number of slots 1 1 Number of slots 1 1 With pluggable modules, digital I/O 8 No With pluggable modules, digital I/O No No With pluggable modules, communication modules No No With pluggable modules, contral modules No No With pluggable modules, others No	Max. input current AC 60 Hz	Α	0
Output voltage AC 60 Hz V 0 - 0 Output voltage DC V 0 - 0 Type of output voltage DC 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 Yes Number of siots Yes Yes With pluggable modules, digital I/O Yes Yes With pluggable modules, communication modulas Yes Yes With pluggable modules, function and technology modules Yes Yes With pluggable modules, central modules Yes Yes With pluggable modules, central modules Yes Yes Wall mounting/direct mounting Yes Yes Wall mounting/direct mounting Yes Yes Wall mounting/direct mounting Yes Yes Suitable for safety functions Yes Yes Strategies access michy possible Yes Yes Suitable for safety functions Yes Yes </td <td>Max. input current DC</td> <td>Α</td> <td>0</td>	Max. input current DC	Α	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 AC 50 Hz A 0 System accessory Yes Yes Number of slots Yes Yes With pluggable modules, digital I/O Yes Yes With pluggable modules, contral modules Yes Yes With pluggable modules, central modules Yes Yes Wall mounting direct mounting Yes Yes Wall mounting direct mounting Yes No Solatable for safety functions Yes No Subable for safety functions Yes	Output voltage AC 50 Hz	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 Pes Yes Number of slots Yes Yes With pluggable modules, digital VO Yes No With pluggable modules, analogue VO No No With pluggable modules, function and technology modules No No With pluggable modules, central modules Yes No With pluggable modules, function and technology modules Yes No With pluggable modules, central modules Yes No With pluggable modules, function and technology modules Yes No With pluggable modules, central modules Yes No With pluggable modules, function and technology modules Yes No Rail mounting possible No No Rail mounting possible No No Suitable for safety functions No No Silt according to IEC 61508 <	Output voltage AC 60 Hz	V	0 - 0
Max. output current AC 50 Hz A 0 Max. output current AC 60 Hz A 0 Max. output current DC A 0 System accessory Pos 1 Number of slots Yes 1 With plugable modules, digital I/O Yes No With plugable modules, analogue I/O No No With plugable modules, central modules Yes No Wall mounting friest mounting Yes No Rack assembly possible No No Rack-assembly possible No No Subable for safety functions Yes No Subable for safety functions Yes No	Output voltage DC	V	0 - 0
Max. output current DC A 0 System accessory P Yes Number of slots 1 Yes With plugable modules, digital I/O P Yes With plugable modules, analogue I/O P No With plugable modules, communication modules P No With plugable modules, function and technology modules P No With plugable modules, central modules P Yes With plugable modules, dunction and technology modules P No	Type of output voltage		DC
Max. output current DC A 0 System accessory Yes 1 Number of slots 1 1 With plugable modules, digital I/O Yes Yes With plugable modules, analogue I/O No No With plugable modules, communication modules No No With plugable modules, communication and technology modules Yes No With plugable modules, contrain modules Yes No With plugable modules, central modules Yes No With plugable modules, central modules Yes Yes With plugable modules, central modules Yes No Rail mounting/direct mounting Yes No <t< td=""><td>Max. output current AC 50 Hz</td><td>Α</td><td>0</td></t<>	Max. output current AC 50 Hz	Α	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, function and technology modules No With pluggable modules, function and technology modules No With pluggable modules, central modules Yes With pluggable modules, central modules Yes With pluggable modules, central modules No Rail mounting possible No Wall mounting/direct mounting No Front built-in possible No Rack-assembly possible No Suitable for safety functions No 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 dust None With None Explosion safety category for dust None <td>Max. output current AC 60 Hz</td> <td>Α</td> <td>0</td>	Max. output current AC 60 Hz	Α	0
Number of slots 1 With plugable modules, digital I/O Yes With plugable modules, analogue I/O IO With plugable modules, communication modules IO With plugable modules, function and technology modules IO With plugable modules, central modules IO With plugable modules, central modules IO With plugable modules, central modules IO Wall mounting/direct mounting IO Wall mounting/direct mounting IO Front built-in possible IO Rack-assembly possible IO Suitable for safety functions IO Suitable for safety functions IO Suitable for safety function agent (Ex 61598 IO Performance level according to EN ISO 13849-1 IO Appendant operation agent (Ex ia) IO Appendant operation agent (Ex ia) IO Explosion safety category for gas IO Explosion safety category for dust IO Width IO Mone IO Light IO None <	Max. output current DC	Α	0
With plugable modules, digital I/O Yes With plugable modules, analogue I/O I/O No With plugable modules, communication modules I/O No With plugable modules, function and technology modules I/O No With plugable modules, central modules I/O Yes With plugable modules, others I/O Yes Rail mounting possible I/O Yes Wall mounting/direct mounting I/O No Front built-in possible I/O No Rack-assembly possible I/O No Sutable for safety functions I/O No Stl according to IEC 61508 I/O None Performance level according to EN ISO 13849-1 I/O None Appendant operation agent (Ex ia) I/O No Appendant operation agent (Ex ia) I/O None Explosion safety category for dust I/O None Width I/O None Explosion safety category for dust I/O None Width I/O None	System accessory		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 No Performance level according to EN ISO 13849-1 No Appendant operation agent (Ex ia) No Appendant operation agent (Ex ib) No Explosion safety category for gas No Explosion safety category for dust No Width None Explosion safety category for dust No Width No Explosion safety category for dust Mo Width No No No No No Explosion safety category for dust No	Number of slots		1
With pluggable modules, communication modules With pluggable modules, function and technology modules With pluggable modules, central modules With pluggable modules, central modules With pluggable modules, others With pluggable modules, others No No Rail mounting possible Wall mounting possible Wall mounting/direct mounting Front built-in possible Rack-assembly possible No Suitable for safety functions Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height Mo Magendant operation agent (Ex ib) Rone Width Height Mo Magendant operation agent (Ex ib) Mo Mone Width Mone Magendant operation agent (Ex ib) No None Mone Mone Mone Mone Mone Mone Mone M	With pluggable modules, digital I/O		Yes
With pluggable modules, function and technology modules With pluggable modules, central modules With pluggable modules, others Rail mounting possible Rail mounting possible Wall mounting/direct mounting Front built-in possible Rack-assembly possible Rock-assembly possible No Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height mm 100.8 No Ves No	With pluggable modules, analogue I/O		No
With pluggable modules, central modules With pluggable modules, others Rail mounting possible Wall mounting/direct mounting Front built-in possible Rack-assembly possible Rack-assembly possible Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height With pluggable modules, central modules No	With pluggable modules, communication modules		No
With pluggable modules, others Rail mounting possible Wall mounting/direct mounting Front built-in possible Rack-assembly possible Rack-assembly possible Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height No No None No	With pluggable modules, function and technology modules		No
Rail mounting possible Wall mounting/direct mounting Front built-in possible Rack-assembly possible Rack-assembly possible Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height Height No No Yes No No No No No No No No No N	With pluggable modules, central modules		Yes
Wall mounting/direct mounting Front built-in possible Rack-assembly possible Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for dust Width Height No	With pluggable modules, others		No
Front built-in possible Rack-assembly possible No Suitable for safety functions No SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas None Explosion safety category for dust Width Height No Ho No No Ho No	Rail mounting possible		Yes
Rack-assembly possible Suitable for safety functions No SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas None Explosion safety category for dust Width Midth M	Wall mounting/direct mounting		No
Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height No No No No No No No No No N	Front built-in possible		No
SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Mone Width Mon	Rack-assembly possible		No
Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width mm 100.8 Height None	Suitable for safety functions		No
Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Appendant operation agent (Ex ib) No Explosion safety category for gas Explosion safety category for dust Width Mind Mind Mind Mind Mind Mind Mind Mind	SIL according to IEC 61508		None
Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width mm 100.8 Height No None	Performance level according to EN ISO 13849-1		None
Explosion safety category for gas Explosion safety category for dust Width mm 100.8 Height Mone 49.9	Appendant operation agent (Ex ia)		No
Explosion safety category for dust Width mm 100.8 Height mm 49.9	Appendant operation agent (Ex ib)		No
Width mm 100.8 Height 49.9	Explosion safety category for gas		None
Height mm 49.9	Explosion safety category for dust		None
	Width	mm	100.8
Depth mm 117.6	Height	mm	
	Depth	mm	117.6