DATASHEET - XN-32DI-24VDC-P

Digital input block module XI/ON, 24 V DC, 32DI, pulse-switching



	Part no. EL Number (Norway)	XN-32DI-24 140147 4520639	VDC-P	Powering Business Worldwi
General specifications				
Product name				Eaton XN-322 Input block module
Part no.				XN-32DI-24VDC-P
EAN				7640130120266
Product Length/Depth				100.8 millimetre
Product height				55.4 millimetre
Product width				74.1 millimetre
Product weight				0.11 kilogram
Certifications				UL Recognized IEC/EN 61000-6-2 Certified by UL for use in Canada CULus IEC/EN 61000-6-4 CE UL File No.: E205091 IEC/EN 61131-2 CSA Class No.: 2252-01, 2252-81 UL report applies to both US and Canada IEC/EN 6113-2 UL 508 CSA-C22.2 No. 142 UL Category Control No.: NRAQ, NRAQ7
Product Tradename				XN-322
Product Type				Input block module
Product Sub Type				None
Features & Functions				
Electric connection type				Screw-/spring clamp connection
Features				Fieldbus connection over separate bus coupler possible
Functions				Positive switching
General information				
Current consumption				30 mA, from module bus, Analog input modules 30 mA, from supply terminal
Degree of protection				IP20
Mounting method				Rail mounting possible
Number of channels				32
Product category				XN Block module
Suitable for				Base modules without C-Connection: 2-/3-wire
Type Used with				I/O module XN-B6T-SBBSBB XN-B6S-SBBSBB
Voltage type				DC
Ambient conditions, me	chanical			
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 temperat	ture - min			0°C
Ambient operating temperat	ture - max			55 °C
Ambient storage temperatur	re - min			-25 °C
Ambient storage temperatur	re - max			85 °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	According to EN 61100-4-2
Burst impulse	According to IEC/EN 61000-4-4
Contact discharge	According to EN 61100-4-2
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)
Electrical rating	
Rated insulation voltage (Ui)	500 V
Rated operational voltage	24 V DC (supply terminal)
Supply voltage at AC, 50 Hz - min	0 V AC
Supply voltage at AC, 50 Hz - max	0 V AC
Supply voltage at DC - min	18 V DC
Supply voltage at DC - max	30 V DC
Communication	
Protocol	Other bus systems
Input/Output	
Input current	2 - 10 mA (Digital inputs, high level) 0 - 1.5 mA (Digital inputs, low level)
Input current at signal 1	2 mA
Input delay	200 μs (falling edge) 200 μs (rising edge)
Input voltage	15 - 30 V (Digital inputs, high level) 24 V DC (Digital inputs) -30 - 5 V (Digital inputs, low level)
Number of inputs (digital)	32
Number of outputs (digital)	0
Output current	0 A
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	4.2 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	4.2 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 10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated. 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.
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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 - digital I/O module (EC001599)

Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
upply voltage DC	V	18 - 30
oltage type (supply voltage)		DC
lumber of digital inputs		32
lumber of digital outputs		0
ligital inputs configurable		No
igital outputs configurable		No
nput current at signal 1	mA	2
Permitted voltage at input	V	0 - 30
ype of voltage (input voltage)		DC
Type of digital output		None
Dutput current	А	0
Permitted voltage at output	V	0 - 0
Fype of output voltage		DC
Short-circuit protection, outputs available		No
lumber of HW-interfaces industrial Ethernet		0
lumber of interfaces PROFINET		0
Number of HW-interfaces RS-232		0
Jumber of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		0
lumber of HW-interfaces serial TTY		0
lumber of HW-interfaces parallel		0
lumber of HW-interfaces wireless		0
lumber of HW-interfaces USB		0
Jumber of HW-interfaces other		1
Vith 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
upporting 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

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Widthmm74.1Heightmm55.4	Certified for UL hazardous location group F (carbonaceous dusts)		No
Height mm 55.4	Certified for UL hazardous location group G (non-conductive dusts)		No
	Width	mm	74.1
Depth mm 100.8	Height	mm	55.4
	Depth	mm	100.8