DATASHEET - XIOC-32DI

Digital input card for XC100/200, 24 V DC, 32DI

Part no.	**XIOC-32DI**
	267411
EL Number (Norway)	**4519686**

General specifications	
Product name	Eaton XIOC Accessory Input card
Part no.	XIOC-32DI
EAN	4015082674113
Product Length/Depth	100 millimetre
Product height	95 millimetre
Product width	30 millimetre
Product weight	0.155 kilogram
Certifications	CSA File No.: 012528 UL File No.: E135462 UL EN 50178 IEC/EN 61131-2 CSA-C22.2 No. 142-M CSA CSA-C22.2 No. 0-M UL508 CSA Class No.: 2252-01 UL Category Control No.: NRAQ CE
Product Tradename	XIOC
Product Type	Accessory
Product Sub Type	Input card
Features & Functions	
Electric connection type	Plug-in connection
General information	
Admissible range	20.4 – 28.8 V (11.8 – 14.4 V), Power supply
Current consumption	100 mA, with fitted modules
Degree of protection	IP20
Number of channels	32, Input
Overvoltage category	II
Pollution degree	2
Protection	Protection class: 1
Repetition rate	1 s
Residual ripple	≤ 5 %
Switching level	≤ 5 V DC, OFF, Voltage level to IEC 61131-2, limit value type 1, Inputs ≥ 15 V DC, ON, Voltage level to IEC 61131-2, limit value type 1, Inputs
Type	Digital module
Used with	XC100/200 (expandable with up to 15 XI/OC modules)
Voltage type	DC
Ambient conditions, mechanical	
Impact resistance	500 g/∅ 50 mm ±25 g
Shock resistance	15 g, Mechanical, Shock duration 11 ms
Vibration resistance	57 - 150 Hz ± 1.0 mm 10 - 57 Hz, ± 0.075 mm
Climatic environmental conditions	
Ambient operating temperature - min	0 °C
Ambient operating temperature - max	55 °C
Ambient storage temperature - min	-25 °C
Ambient storage temperature - max	70 °C
Electro magnetic compatibility	
Emitted interference	Class A (according to DIN/EN 55011/22)

Voltage dips	10 ms
Terminal capacities	
Terminals	Optionally, screw terminals or spring-loaded terminals for digital/analog modules XIOC-TERM32 (connector and cable)
Electrical rating	
Power loss	Max. 3.8 W
Rated operational voltage	24 (12) V DC
Short-circuit protection	Yes, Outputs
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	20.4 V DC
Supply voltage at DC - max	28.8 V DC
Communication	
LED indicator	Status indication: 16 Green LED (switchable: 0 - 15, 16 - 31)
Input/Output	
Delay time	≤ 5 ms (normally 4 ms), Debounce ON ≤ 5 ms typ., Digital inputs 24 V DC, Delay time from 0 to 1, Debounce ON
Input	Voltage (DC) 32 Inputs (24 V DC)
Input current	4.3 mA
Input current at signal 1	4.3 mA
Input impedance	5.6 kΩ
Input voltage	24 V DC (modules)
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	Digital inputs: Opto-isolated
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	3.8 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) / PLC digital I/O-module (EC001419)

Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Programmable logic control (SPS) / SPS digital input/output module (ecl@ss13-27-24-22-04 [AKE527019])

Supply voltage AC 50 Hz		V	0 - 0
Supply voltage AC 60 Hz		V	0 - 0
Supply voltage DC		V	20.4 - 28.8
Voltage type (supply voltage)			DC
Number of digital inputs			32
Number of digital outputs			0
Digital inputs configurable			No
Digital outputs configurable			No
Power consumption		W	
Input current at signal 1		mA	4.3
Permitted voltage at input		V	20.4 - 28.8
Type of voltage (input voltage)			DC
Type of digital output			None
Output current		A	0
Permitted voltage at output		V	20.4 - 28.8
Type of output voltage			DC
Short-circuit protection, outputs available			No
Redundancy			No
Type of electric connection			Plug-in connection
Time delay at signal change		ms	0 - 0
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	30
Height		mm	95
Depth		mm	100