DATASHEET - XIOC-NET-SK-M

Communication module for XC100/200, 24 V DC, suconet-K Master

EATON
Powering Business Worldwide™

Part no.	**XIOC-NET-SK-M**	
	289982	
EL Number (Norway)	**4519695**	

General specifications

Product name		Eaton XIOC Communication module
Part no.		XIOC-NET-SK-M
EAN		4015082899820
Product Length/Depth		100 millimetre
Product height		95 millimetre
Product width		30 millimetre
Product weight		0.145 kilogram
Certifications		CE CSA-C22.2 No. 0-M EN 50178 UL File No.: E135462 CSA File No.: 012528 UL IEC/EN 61131-2 CSA UL508 CSA Class No.: 2252-01 CSA-C22.2 No. 142-M UL Category Control No.: NRAQ
Product Tradename		XIOC
Product Type		Communication module
Product Sub Type		None
Catalog Notes		Suconet K master module

Features & Functions

Fitted with:		Potential separation
Functions		Master

General information

Current consumption		275 mA (Ie), Interfaces 275 mA, Interfaces
Degree of protection		IP20
Overvoltage category		II
Pollution degree		2
Protection class		1
Repetition rate		1 s
Residual ripple		≤ 5 %
Resistance		500 g/∅ 50 mm ±25 g (impact resistance)
Type		Communication module
Used with		XC100/200 (expandable with up to 15 XI/OC modules)

Ambient conditions, mechanical

Shock resistance		15 g, Mechanical, Shock duration 11 ms
Vibration resistance		10 - 57 Hz, ± 0.075 mm 57 - 150 Hz ± 1.0 mm

Climatic environmental conditions

Ambient operating temperature - min		0 °C
Ambient operating temperature - max		55 °C
Ambient storage temperature - min		-20 °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

Electrical rating

Power loss		6.6 W
Rated operational voltage		24 (12) V DC
Supply voltage		20.4 – 28.8 (11.8 – 14.4) V DC, Admissible range, Power supply

Communication

Bus termination		Switchable
Data transfer rate		Transmit/Receive data: 250 Bytes per COM 187.5 or 375 kBit/s
Interfaces		RS485 (built-in) Number of active interfaces/modules: 1
LED indicator		Status indication of Bus diagnostics: LED
Number of modules		4 (XC200) 2 (XC100) 16 (slaves)
Number of slots		As required
Plug type		Plug-in terminal block
Protocol		SUCONET

Safety

Explosion safety category for dust		None
Explosion safety category for gas		None
Potential isolation		Interfaces: 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		6.6 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 communication module (EC001423)		
Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Programmable logic control (SPS) / SPS communication module (ecl@ss13-27-24-22-08 [AKE531019])		
Number of HW-interfaces industrial Ethernet		0

Number of interfaces PROFINET		0
Number of HW-interfaces CAN		
Number of HW-interfaces RS-232		0
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		1
Number of HW-interfaces serial TTY		0
Number of HW-interfaces USB		0
Number of HW-interfaces parallel		0
Number of HW-interfaces wireless		0
Number of HW-interfaces other		0
With 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
Supporting protocol for DeviceNet		No
Supporting protocol for SUCONET		Yes
Supporting protocol for LON		No
Supporting protocol for PROFINET IO		No
Supporting protocol for PROFINET CBA		No
Supporting protocol for SERCOS		No
Supporting protocol for Foundation Fieldbus		No
Supporting protocol for EtherNet/IP		No
Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		No
Radio standard Bluetooth		No
Radio standard WLAN 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
IO link master		No
Redundancy		No
Type of data transmission		Serial
Transmission rate	kBit/s	375
With potential separation		Yes
SIL according to IEC 61508		None
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 gas		None
Explosion safety category for dust		None
Certified for UL hazardous location class I		No
Certified for UL hazardous location class II		No
Certified for UL hazardous location class III		No
Power consumption	W	

Certified for UL hazardous location division 1			No
Certified for UL hazardous location division 2			No
Certified for UL hazardous location group A (acetylene)			No
Certified for UL hazardous location group B (hydrogen)			No
Certified for UL hazardous location group C (ethylene)			No
Certified for UL hazardous location group D (propane)			No
Certified for UL hazardous location group E (metal dusts)			No
Certified for UL hazardous location group F (carbonaceous dusts)			No
Certified for UL hazardous location group G (non-conductive dusts)			No
Width		mm	30
Height		mm	95
Depth		mm	100