Communication module for XC100/200, 24 V DC, serial, modbus, SUCOMA, suconet ${\rm K}$



Part no. XIOC-SER 267191 EL Number 4519690

(Norway)

(Not way) General specifications	
Product name	Faton VIOC Communication module
	Eaton XIOC Communication module
Part no. EAN	XIOC-SER 4015082671914
Product Length/Depth	
• •	100 millimetre
Product height	95 millimetre
Product width	30 millimetre
Product weight	0.145 kilogram
Certifications	CSA-C22.2 No. 142-M CSA File No.: 012528 UL Category Control No.: NRAQ UL508 UL CSA UL File No.: E135462 EN 50178 IEC/EN 61131-2 CSA Class No.: 2252-01 CE CSA-C22.2 No. 0-M
Product Tradename	XIOC
Product Type	Communication module
Product Sub Type	None
Catalog Notes General information	MODBUS Master/Slave Modes of operation: RS232C, RS485, RS422 Serial interface SUCOM-A Suconet-K slave Transparent mode
Cable type	RTS, CTS, DTR, DSR, DCD
Current consumption	275 mA (Ie), Interfaces 275 mA, max. internal current consumption, Interface modules
Degree of protection	IP20
Overvoltage category	II
Pollution degree	2
Protection class	1
Repetition rate	1s
Residual ripple	≤ 5 %
Resistance	500 g/ \varnothing 50 mm ±25 g (impact resistance)
Туре	Communication module RS232, RS 422, RS485, Interfaces
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	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	-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 module:
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	
Addressing	Address range: 2 - 31
Bus termination	Switchable for RS485, RS422
Character formats	8E1, 801, 8N1, 8N2, 7E2, 702, 7N2, 7E1
Connection type	9-pole SUB-D connector (male), RS232 6-pole spring-loaded terminal block, RS422/RS485
Data transfer rate Interfaces	0.3 kBit/s, Interface, Transparent mode 2.4 kBit/s, Interface, Transparent mode 4.8 kBit/s, Interface, Transparent mode 9.6 kBit/s, Interface, Transparent mode 0.6 kBit/s, Interface, Transparent mode 250 Byte per slave, Transmit/receive data 187.5 kBit/s, 375 kBit/s (Suconet) 38.4 kBit/s, Interface, Transparent mode 0.3 - 57.6 kBit/s 1.2 kBit/s, Interface, Transparent mode 120 Byte per slave (Suconet-K slave), Transmit/receive data 19.2 kBit/s, Interface, Transparent mode 57.6 kBit/s, Interface, Transparent mode 187.5 or 375 kBit/s, Suconet-K slave) Number of active interfaces/modules: 1 RTS, CTS, DTR, DSR, DCD (Operating mode Transparent mode, Control and signa cables, Analog control inputs) RS485 RS422 RS232(C), RS422, RS485 (built-in)
Number of bytes	250 bytes (per Com)
Number of modules	2 (XC100) 4 (XC200)
Number of slots	As required
Plug type	RS485, 422: plug terminal block
	RS232: 9 pole SUB-D plug
Protocol	MODBUS Other bus systems RS485 (Interface) SUCONET
Input/Output	
Rapid counter inputs	250 bytes per Com
Safety	
Explosion safety category for dust	None
Explosion safety category for gas	None
Potential isolation	Interfaces (RS485, RS422): 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 INV-interfaces PROFINET 1 Number of INV-interfaces RS-222 1 Number of INV-interfaces RS-224 1 Number of INV-interfaces RS-428 1 Number of INV-interfaces RS-428 0 Number of INV-interfaces USB 0 Number of INV-interfaces USB 0 Number of INV-interfaces unrelied 0 Supporting protocol for TROPICE Na Supporting protocol for PROFINE Na Supporting protocol for Number of INV-interfaces unrelied Na Supporting protocol for Deverber to Unrelied unrel	[AKE531019])	Lontrol System (PCS) / Programmable logic control (SPS) / SPS communication module (eci⊌ss13-27-24-22-08
Number of HW-interfaces CAN 1 Number of HW-interfaces RS-422 1 Number of HW-interfaces RS-425 1 Number of HW-interfaces RS-426 1 Number of HW-interfaces serial TTY 0 Number of HW-interfaces parallel 0 Number of HW-interfaces wireless 0 Number of HW-interfaces ofter 0 With optical interface 0 Number of HW-interfaces ofter 0 With optical interface 0 Supporting protocol for FMCFIBUS No Supporting protocol for FMCFIBUS No Supporting protocol for FMCFIBUS No Supporting protocol for MAS No Supporting protocol for Duckedet No Supporting protocol for Duckedet No Supporting protocol for Duckedet No Supporting protocol for FMCFIET GBA No Supporting protocol for FMCFIET GBA No Supporting protocol for FMCFIET GBA<	Number of HW-interfaces industrial Ethernet	0
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	Supporting protocol for other bus systems	Yes
Radio standard WLAN 802.11 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		No
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