

Specifications



Eaton 267191

Eaton XIOC Communication module for XC100/200, 24 V DC, serial, modbus, SUCOM-A, suconet K

General specifications

PRODUCT NAME	Eaton XIOC Communication module
CATALOG NUMBER	267191
MODEL CODE	XIOC-SER
EAN	4015082671914
PRODUCT LENGTH/DEPTH	100 mm
PRODUCT HEIGHT	95 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.145 kg
CERTIFICATIONS	CSA File No.: 012528 UL File No.: E135462 CSA Class No.: 2252-01 UL CSA UL Category Control No.: NRAQ CSA-C22.2 No. 142-M IEC/EN 61131-2 CSA-C22.2 No. 0-M CE UL508 EN 50178

Ambient conditions, mechanical

SHOCK RESISTANCE 15 g, Mechanical, Shock duration 11 ms

VIBRATION RESISTANCE 57 - 150 Hz $\pm$ 1.0 mm
10 - 57 Hz, $\pm$ 0.075 mm

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX 55 °C

AMBIENT STORAGE TEMPERATURE - MAX 70 °C

AMBIENT OPERATING TEMPERATURE - MIN 0 °C

AMBIENT STORAGE TEMPERATURE - MIN -20 °C

Communication

ADDRESSING	Address range: 2 - 31
BUS TERMINATION	Switchable for RS485, RS422
CHARACTER FORMATS	8E1, 8O1, 8N1, 8N2, 7E2, 7O2, 7N2, 7E1
CONNECTION TYPE	9-pole SUB-D connector (male), RS232 6-pole spring-loaded terminal block, RS422/RS485
DATA TRANSFER RATE	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
INTERFACES	Number of active interfaces/modules: 1 RTS, CTS, DTR, DSR, DCD (Operating mode Transparent mode, Control and signal 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
PROTOCOL	MODBUS

Design verification

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.
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.

	Other bus systems RS485 (Interface) SUCONET
PLUG TYPE	RS485, 422: plug terminal block RS232: 9 pole SUB-D plug

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.
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

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

Electro magnetic compatibility	
EMITTED INTERFERENCE	Class A (according to DIN/EN 55011/22)
VOLTAGE DIPS	10 ms

General information

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	1 s
RESIDUAL RIPPLE	≤ 5 %
RESISTANCE	500 g/□ 50 mm ±25 g (impact resistance)
TYPE	• Communication module • RS232, RS 422, RS485, Interfaces
USED WITH	XC100/200 (expandable with up to 15 XI/OC modules)

Safety

EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
POTENTIAL ISOLATION	Interfaces (RS485, RS422): yes

Input/Output

RAPID COUNTER INPUTS	250 bytes per Com
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Terminal capacities

TERMINALS	Optionally, screw terminals or spring-loaded terminals for digital/analog modules
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Resources

BROCHURES

[Slice card modular I/O system for the machine building industry XN300 - brochure](#)

[eaton-xc300-modular-plc-brochure-br050008en-en-us.pdf](#)

DRAWINGS

[eaton-electronic-devices-in-out-module-xioc-output-module-dimensions.eps](#)

[eaton-electronic-devices-local-inputoutput-xioc-output-module-3d-drawing.eps](#)

[eaton-electronic-devices-dimensions-xioc-output-module-dimensions.eps](#)

ECAD MODEL

[DA-CE-ETN.XIOC-SER](#)

INSTALLATION INSTRUCTIONS

[IL05002001Z](#)

MANUALS AND USER GUIDES

[MN05002002Z_EN](#)

MCAD MODEL

[eaton-communication-modules-mcad-drawings-xioc-ser.dwg](#)

[DA-CS-xioc_ser](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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