

Specifications



Eaton 289982

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

General specifications

PRODUCT NAME	Eaton XIOC Communication module
CATALOG NUMBER	289982
MODEL CODE	XIOC-NET-SK-M
EAN	4015082899820
PRODUCT LENGTH/DEPTH	100 mm
PRODUCT HEIGHT	95 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.145 kg
CERTIFICATIONS	CE CSA-C22.2 No. 142-M UL508 CSA Class No.: 2252-01 CSA-C22.2 No. 0-M UL EN 50178 UL Category Control No.: NRAQ UL File No.: E135462 IEC/EN 61131-2 CSA CSA File No.: 012528
CATALOG NOTES	Suconet K master module

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

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

PROTOCOL SUCONET

PLUG TYPE Plug-in terminal block

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

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.
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

Features & functions

FITTED WITH:	Potential separation
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FUNCTIONS	Master
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General information

CURRENT CONSUMPTION	275 mA (Ie), Interfaces 275 mA, Interfaces
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DEGREE OF PROTECTION	IP20
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OVERVOLTAGE CATEGORY	II
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POLLUTION DEGREE	2
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PROTECTION CLASS	1
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REPETITION RATE	1 s
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RESIDUAL RIPPLE	≤ 5 %
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RESISTANCE	500 g/□ 50 mm ±25 g (impact resistance)
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TYPE	Communication module
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USED WITH	XC100/200 (expandable with up to 15 XI/OC modules)
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Safety

EXPLOSION SAFETY CATEGORY FOR DUST	None
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EXPLOSION SAFETY CATEGORY FOR GAS	None
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POTENTIAL ISOLATION	Interfaces: yes
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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-dimensions-xioc-output-module-dimensions.eps](#)

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

ECAD MODEL

[DA-CE-ETN.XIOC-NET-SK-M](#)

INSTALLATION INSTRUCTIONS

[IL05002003Z](#)

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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