

**Modular PLC XC104, Micro PLC, programmable CODESYS 3, USB,
Ethernet, XN300 IO expandable**
**Part no. XC-104-C10-000
199971**

General specifications		
Product name		Eaton XC100 modular PLC
Part no.		XC-104-C10-000
EAN		4015081997602
Product Length/Depth		104.2 millimetre
Product height		29.3 millimetre
Product width		80.3 millimetre
Product weight		0.11 kilogram
Certifications		CE cULus Listed EN 61131 UL listed UL File No.: E205091 EAC
Product Tradename		XC100
Product Type		Modular PLC
Product Sub Type		None
Public Consumption		Yes
Product Family Description		ES-PMCC-ICP-Eaton XC100 modular programmable logic controllers
Globally Marketable		Yes
Features & Functions		
Fitted with:		XSOF-CODESYS 3
Functions		Additional program memory possible
General information		
Connection type		Push-in spring-cage terminal, Connection design in TOP direction
Degree of protection		IP20
Model		Modular
Mounting method		Rail mounting possible
Overvoltage category		II
Pollution degree		2
Voltage type		DC
Ambient conditions, mechanical		
Mounting position		Vertical (on horizontal top-hat rail)
Shock resistance		15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 9 Impacts
Vibration resistance		5 - 8.4 / 8.4 -150 Hz, 3,5 mm / 1 g
Climatic environmental conditions		
Air pressure		795 - 1080 hPa (operation)
Ambient operating temperature - min		-20 °C
Ambient operating temperature - max		60 °C
Ambient storage temperature - min		-25 °C
Ambient storage temperature - max		70 °C
Relative humidity		< 95 % (non-condensing)
Electro magnetic compatibility		
Emitted interference		40 dB (at 30 - 230 MHz, Class A, radiated, high frequency) 47 dB (at 230 - 1000 MHz, Class A, radiated, high frequency)
Terminal capacities		
Terminal capacity (AWG)		24 - 16
Terminal capacity (flexible with ferrule)		0.25 - 1.5 mm ² , with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)

		0.25 - 1.5 mm ² , with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)
Terminal capacity (flexible)		0.2 - 1.5 mm ² , H 07V-K
Terminal capacity (solid)		0.2 - 1.5 mm ² , H07V-U
Power supply		
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		19.2 V DC
Voltage dips		20 ms 10 ms
Supply voltage at DC - max		30 V DC
Communication		
Interfaces		ETH XN300
Protocol		EtherNet/IP MODBUS Other bus systems TCP/IP
Input/Output		
Number of channels		0
Number of inputs (analog)		0
Number of inputs (digital)		0
Number of outputs (analog)		0
Number of outputs (digital)		0
Number of relay outputs		0
Rated operational current (Ie)		1 A (supply input)
Safety		
Explosion safety category for gas		None
Explosion safety category for dust		None
System		
Memory capacity		256,000 kByte
Design verification		
Static heat dissipation, non-current-dependent Pvs		6.3 W
Heat dissipation details		The max. heat dissipation is specified as the maximum power produced inside the device's housing.
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 8.0

Programmable logic controllers PLC (EG000024) / PLC CPU-module (EC000236)		
Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / SPS - basic device (ec1@ss10.0.1-27-24-22-07 [AKE530014])		
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	19.2 - 30
Voltage type of supply voltage		DC
Number of relay outputs		0
Max. number of time switches		1000
Model		Modular
Processing time (1K, binary operation)	ms	0.00125
Number of HW-interfaces industrial Ethernet		1
Number of interfaces PROFINET		0
Number of HW-interfaces RS-232		0
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		0
Number of HW-interfaces USB		1
Number of HW-interfaces parallel		0
Number of HW-interfaces Wireless		0
Number of HW-interfaces other		1
Number of analogue outputs		0
Number of analogue inputs		0
Number of digital inputs		0
Number of digital outputs		0
With optical interface		No
Supporting protocol for TCP/IP		Yes
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		Yes
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		No
Supporting protocol for SUCONET		No
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		Yes
Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for PROFI-safe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		Yes
Supporting protocol for DNP3		No
Supporting protocol for IEC 60870		No
Supporting protocol for IEC 61850 Ethernet		No
Radio standard Bluetooth		No
Radio standard Wi-Fi 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No

Long-Term Evolution (LTE)			No
IO link master			No
System accessory			Yes
Redundancy			No
With display			No
Type of memory			RAM
Memory size		kByte	256000
Additional program memory possible			Yes
Rail mounting possible			Yes
Wall mounting/direct mounting			No
Front built-in possible			No
Rack-assembly possible			No
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	80.3
Height		mm	29.3
Depth		mm	104.2