DATASHEET - XC-204-C10-000

Modular PLC XC204, Micro PLC, programmable CODESYS 3, USB, Ethernet, XN300 IO expandable

Powering Business Worldwide

Part no. XC-204-C10-000
199973

General specifications

Product name	Eaton XC200 modular PLC
Part no.	XC-204-C10-000
EAN	4015081997619
Product Length/Depth	104.2 millimetre
Product height	29.3 millimetre
Product width	80.3 millimetre
Product weight	0.11 kilogram
Certifications	UL File No.: E205091 EAC cULus Listed EN 61131 UL listed CE
Product Tradename	XC200
Product Type	Modular PLC
Product Sub Type	None
Public Consumption	Yes
Product Family Description	ES-PMCC-ICP-Eaton XC200 modular programmable logic controllers
Globally Marketable	Yes

Features & Functions

Fitted with:	XSOFT-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 mm², with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)
Terminal capacity (flexible)	0.2 - 1.5 mm², H 07V-K
Terminal capacity (solid)	0.2 - 1.5 mm², 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)	1.4 A (supply input)
Safety	
Explosion safety category for gas	None
Explosion safety category for dust	None
System	
Memory capacity	512,000 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 (ecl@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 PROFIsafe		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	512000
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