DATASHEET - XC-204-C11-003

Modular PLC XC204, Micro PLC, programmable CODESYS 3, USB, Ethernet, CAN, RS485, XN300 IO expandable

Part no. XC-204-C11-003
199974

General specifications

Product name		Eaton XC200 modular PLC
Part no.		XC-204-C11-003
EAN		4015081997626
Product Length/Depth		104.2 millimetre
Product height		29.3 millimetre
Product width		80.3 millimetre
Product weight		0.11 kilogram
Certifications		EN 61131 UL listed cULus Listed CE EAC UL File No.: E205091
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 mm², with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)

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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 CAN RS485 XN300
Protocol		CAN 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 9.0

Programmable logic controllers PLC (EG000024) / PLC CPU-module (EC000236)

Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Programmable logic control (SPS) / SPS - basic device (ecl@ss13-27-24-22-07 [AKE530019])

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 (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		1
Number of HW-interfaces USB		1
Number of HW-interfaces parallel		0
Number of HW-interfaces wireless		0
Number of HW-interfaces other		2
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		Yes
Supporting protocol for EtherCAT		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 WLAN 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
Certified for UL hazardous location class I		No
Certified for UL hazardous location class II		No
Certified for UL hazardous location class III		No
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	80.3
Height	mm	29.3
Depth	mm	104.2