$\rm XC303\ modular\ PLC,\ small\ PLC,\ programmable\ CODESYS\ 3,\ SD\ Slot,\ Ethernet,\ CAN$



Part no. XC-303-C11-000 191082

Eaton XC Modular PLC
XC-303-C11-000
4015081915682
108 millimetre
65 millimetre
85 millimetre
0.28 kilogram
EN 61131 CE EAC UL listed UL File No.: E205091 cULus Listed
XC
Modular PLC
None
Protective devices must be installed directly at the inductive load in order to prevent interference.
Short-circuit protection (digital outputs)
Redundancy Additional program memory possible
Push-in spring-cage terminal, Connection design in TOP direction
IP20
512,000 kByte
Modular
Rail mounting possible
II
2
MODBUS CAN Other bus systems TCP/IP EtherNet/IP
24 V 160 V (terminations)
DC
1 m
Vertical (on horizontal top-hat rail)
15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 9 Impacts
5 - 8.4 / 8.4 -150 Hz, 3,5 mm / 1 g
795 - 1080 hPa (operation)
-20 °C
55 °C
-40 °C
2° 08

Environmental conditions	Condensation: prevent with appropriate measures
Relative humidity	< 95 % (non-condensing)
Electro magnetic compatibility	
Air discharge	8 kV/4 kV, Air/contact discharge, ESD
Burst impulse	1 kV, Signal cable 2 kV, Supply cable
Electromagnetic fields	10 V/m at 0.08 - 1.0 GHz (according to IEC EN 61000-4-3) 1 V/m at 2 - 2.7 GHz (according to IEC EN 61000-4-3) 3 V/m at 1.4 - 2 GHz (according to IEC EN 61000-4-3)
Emitted interference	40 dB (at 30 - 230 MHz, Class A, radiated, high frequency) 47 dB (at 230 - 1000 MHz, Class A, radiated, high frequency)
Radiated RFI	10 V
Surge rating	0.5/0.5 kV, Supply cable, balanced/unbalanced), EMC 1 kV, Signal cable, unbalanced, EMC
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 (ferrule 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
Stripping length (main cable)	10 mm
Gauge pin	A1 (according to IEC/EN 60947-1)
Insulating material group	l l
Power supply	
Heat dissipation	0.05 W (Digital inputs according to EN61131-2 Type 1, per active channel) 0.1 W (Digital outputs, internal, per active channel)
Input voltage	15 - 30 V (Digital inputs, high level) 24 V DC (Digital inputs) 0 - 5 V (Digital inputs, low level)
Supply voltage at AC, 50 Hz - max	0 V AC
Output current	0.5 A
Supply voltage at DC - max	30 V DC
Supply voltage at AC, 50 Hz - min	0 V AC
Supply voltage at DC - min	18 V DC
Voltage dips	Voltage dips: 10 ms/Voltage fluctuations: Yes
Input/Output	
Delay time	200 μ s, Digital outputs, Delay on signal change and resistive load, from Low to Hig signal 200 μ s, Digital outputs, Delay on signal change and resistive load, from High to Losignal
Digital outputs	Note: Protective devices must be installed directly at the inductive load in order to prevent interference.
Input current	≥ 2.3 mA (Digital inputs, high level) 2 mA (le) ≤ 1.1 mA (Digital inputs, low level)
Input delay	300 µs (rising edge) 300 µs (falling edge)
Load current	Max. 6 A per 1.5 mm² (cross-sectional area)
Number of channels	4, Digital Outputs
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 (le)	2.8 A (supply input)
Utilization factor	100 % (# IAmax = 2A)
Safety	
Explosion safety category for dust	None
Explosion safety category for gas	None
Potential isolation	Between Digital inputs: no

	Between Digital outputs: no
Design verification	
Static heat dissipation, non-current-dependent Pvs	8 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 logi	c controllers PLC (FG000024) / 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	18 - 30
Voltage type (supply voltage)			DC
Number of relay outputs			0
Max. number of time switches			1000
Model			Modular
Processing time (1K, binary operation)	ı	ms	0.001
Number of HW-interfaces industrial Ethernet			0
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			0
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		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 Supporting protocol for EtherNet/IP		No V
		Yes
Supporting protocol for AS-Interface Safety at Work		No No
Supporting protocol for DeviceNet Safety		No No
Supporting protocol for INTERBUS-Safety		No No
Supporting protocol for PROFIsafe		No No
Supporting protocol for SafetyBUS p		No V
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
10 link master		No
System accessory		Yes
Redundancy		Yes
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
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Certified for UL hazardous location group A (acetylene)		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	85
Height	mm	65
Depth	mm	108