

Compact PLC, 24 V DC, ethernet, RS232, RS485, PROFIBUS DP, SWDT



Part no. XC-152-E8-11
167852
EL Number 4560849
(Norway)

General specifications		
Product name		Eaton XC Compact PLC
Part no.		XC-152-E8-11
EAN		4015081644278
Product Length/Depth		50.6 millimetre
Product height		102.6 millimetre
Product width		155 millimetre
Product weight		0.317 kilogram
Certifications		UL508 CULus UL File No.: E205091 DNV GL UL Category Control No.: NRAQ Certified by UL for use in Canada CSA Class No.: none CE IEC/EN 61131-2, CE UL 508 EN 61131 UL CSA File No.: UL report applies to both US and Canada
Product Tradename		XC
Product Type		Compact PLC
Product Sub Type		None
Catalog Notes		CoDeSys Runtime (license inclusive)
Features & Functions		
Features		Integrated Web server
Fitted with:		Other components Real time clock Function module Basic device Communication module Memory unit Documentation Visualization Programming interface Technology module Engineering software Libraries Power supply
Functions		Ethernet function OPC Server Web-server Remote Server Additional field bus interfaces Building blocks SmartWire-DT master interface
Processor		RISC CPU, 32 Bit, 400 MHz
General information		
Battery runtime		10 years typ.
Degree of protection		IP20
Memory capacity		64 MegaByte/4 kByte/32 kByte (Application/marker/retain data)
Operating system		Windows CE 5.0 (license included)
Power loss		Max. 8.5 W
Product category		SmartWire-DT coordinators
Rated operational voltage		20.4 - 28.8 V DC
Supply voltage at DC - max		24 V DC
Climatic environmental conditions		
Ambient operating temperature - min		0 °C
Ambient operating temperature - max		55 °C

Ambient storage temperature - min		-20 °C
Ambient storage temperature - max		60 °C
Communication		
Connection to SmartWire-DT		Yes
Connection type		SWD: Blade terminal SWD4-8MF2 PROFIBUS: SUB-D socket, 9-pole RS485: SUB-D, 9-pole (plug) Ethernet: RJ45 plug, 8-pole
Cycle time		< 0.04 ms, for 1 k of instructions (Bit, Byte), memory
Data transfer rate		57.6 kBit/s, RS485 250 kBit/s, SmartWire-DT 100Base-TX, Ethernet 10Base-T, Ethernet 1500 kBit/s, PROFIBUS-DP
Interfaces		1 x RS485 (built-in) USB 2.0 (Host) 1 x USB device 2.0 (built-in) 1 x USB host 2.0 (built-in) 1 x Ethernet 10/100 Mbps (built-in) PROFIBUS RS485 USB 2.0 1 x SmartWire-DT (built-in) 1 x PROFIBUS/MPI (built-in)
Memory		64 MByte Program memory code
Number of modules		99 (SmartWire-DT) 126 (PROFIBUS)
Number of slots		1 (for SD-Card)
Protocol		FTP (basic interface) UDP (basic interface) IP (basic interface) SmartWire-DT (additional interface) DP V1 (additional interface) SMTP (basic interface) HTTP (basic interface) TCP (basic interface) MPI - Master (additional interface)
Design verification		
Equipment heat dissipation, current-dependent Pvid		0 W
Heat dissipation capacity Pdis		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 W
Heat dissipation details		6 W for basic device + 2.5 W for USB module With power consumption for 24 V
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.

Technical data ETIM 9.0

Programmable logic controllers PLC (EG000024) / PLC device set (EC002581)		
Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Programmable logic control (SPS) / PLC device set (ecl@ss13-27-24-22-19 [BAA707018])		
Contains function building blocks		Yes
Contains basic device		Yes
Contains module rack		No
Contains power supply		Yes
Contains analogue input module		No
Contains analogue output module		No
Contains digital input module		No
Contains digital output module		No
Contains function module		Yes
Contains technology module		Yes
Contains communication module		Yes
Contains memory unit		Yes
Contains simulation module		No
Contains connection cable		No
Contains control unit		No
Contains monitor		No
Contains programming software		No
Contains engineering software		Yes
Contains visualization		Yes
Contains libraries		Yes
Contains documentation		Yes
Contains other components		Yes
Software preinstalled		No