DATASHEET - XC-152-E8-11

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

Part no. XC-152-E8-11
167852

EL Number (Norway) 4560849

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	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
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
Ambient operating temperature - min	0 °C
Ambient operating temperature - max	55 °C

Ambient storage temperature - min	-20 °C
Ambient storage temperature - max	60 °C
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)
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	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.

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 device set (EC002581)		
Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / PLC device set (ecl@ss10.0.1-27-24-22-19 [BAA707013])		
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