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

Part no. XC-152-D8-11
Article no. 167849
Catalog No. XC-152-D8-11

Powering Business Worldwide

Delivery program

Product range			SmartWire-DT PLC
Operating system			Windows CE 5.0 (licence incl.)
PLC-licence			CoDeSys Runtime (licence inclusive)
Integrated Web server			yes
Built-in interfaces			1 x Ethernet 10/100 Mbps 1 x RS232 1 x RS485 1 x USB host 2.0 1 x PROFIBUS/MPI
Slots			1 x SD Slot
Memory			
Application/marker/retain data		KByte	64 MB/4 KB/32 KB

Technical data

General

Standards			EN 61131, UL 508
Approvals			CE, cULus
Ambient temperature		°C	0 - +55
Storage	ϑ	°C	-20 - +60
Degree of Protection			IP20
Battery (service life)			normally 10 years
Weight		kg	0.46

Power supply

Supply voltage		V DC	24
Permissible range	U_e		18 - 30 V DC
Maximum power loss	P_v	W	8.5
Note on heat dissipation			Heat dissipation with power consumption for 24 V 6 W for basic device + 2.5 W for USB module

CPU

Processor			RISC CPU, 32 Bit, 400 MHz

Memory

Program code/program data			64MB
Cycle time for 1 k of instructions (Bit, Byte)		ms	Normally 0.04

Interfaces

Basic interfaces			
Ethernet			
Profile			FTP SMTP HTTP TCP UDP IP
Data transfer rate		MBit/s	100Base-TX 10Base-T
Potential isolation			500 $V_{r.m.s.}$
Programming interface			yes
Connections			RJ45
USB			
USB Host			USB 2.0
Potential isolation			None
USB device			USB 2.0
Potential isolation			None
additional interfaces			
PROFIBUS			

			✓
Profile			DP V1 MPI (Master)
Data transfer rate		kbit/s	max. 1500
Potential isolation			None
Module		Count	126
Connections			9-pin D-sub (socket)
CAN			
			–
SmartWire-DT			
			–
RS485			
			–
RS232			
			✓
Data transfer rate		kbit/s	max. 57.6
Potential isolation			None
Connections			9-pin D-sub (plug)
RTC (real-time clock)			yes

Design verification as per IEC/EN 61439

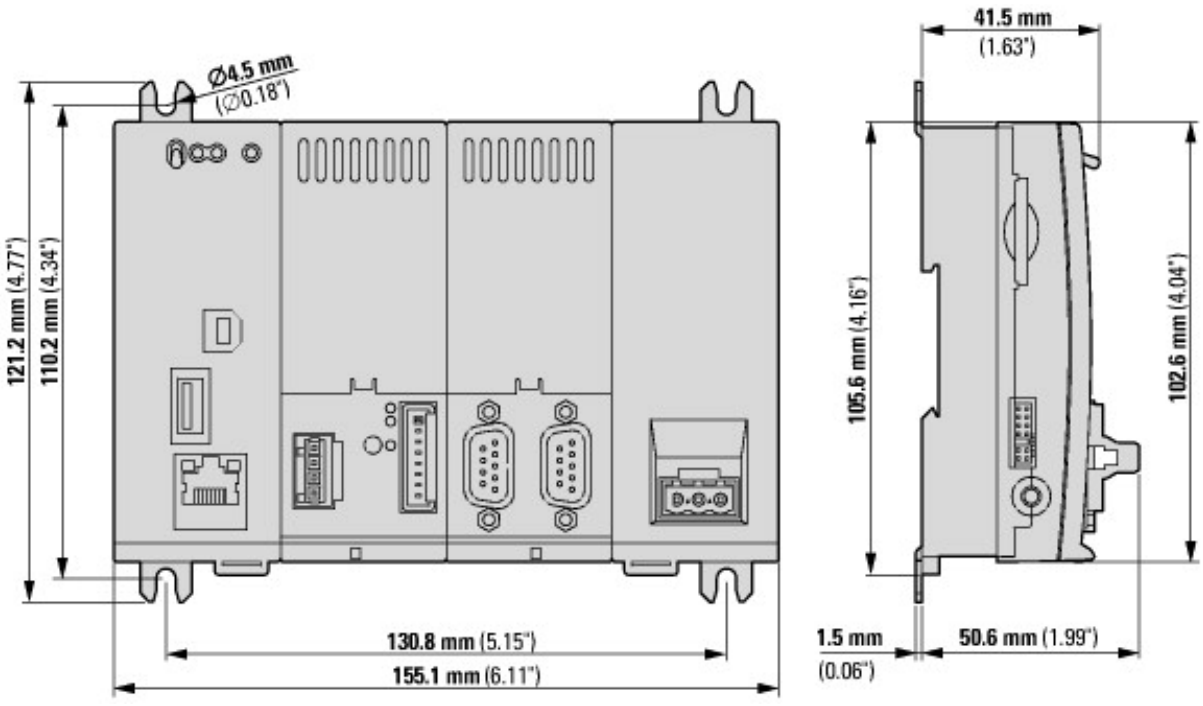
Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	0
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	6
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties			
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 6.0

PLC's (EG000024) / PLC device set (EC002581)		
Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / PLC device set (ecl@ss8.1-27-24-22-19 [BAA707010])		
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 modle		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

Dimensions



Additional product information (links)

Instruction leaflet "XC-152 compact PLC" IL05003006Z	
Instruction leaflet "XC-152 compact PLC" IL05003006Z	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05003006Z2012_12.pdf
MN04802006Z Operator manual XV-152	

MN04802006Z Betriebsanleitung XV-152 - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802006Z_DE.pdf
MN04802006Z Operator manual XV-152 - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802006Z_EN.pdf
MN04802013Z quick-start instructions XV100	
MN04802013Z Schnellstartanleitung XV100 - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802013Z_DE.pdf
MN04802013Z quick-start instructions XV100 - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802013Z_EN.pdf
MN05003007Z User manual XSoft-CoDeSys-2, PLC programming XC152	
MN05003007Z Benutzerhandbuch XSoft-CoDeSys-2, SPS-Programmierung XC152 - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003007Z-DE.pdf
MN05003007Z Benutzerhandbuch XSoft-CoDeSys-2, SPS-Programmierung XC152 - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003007Z_DE.pdf
MN05003007Z User manual XSoft-CoDeSys-2, PLC programming XC152 - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003007Z-EN.pdf
MN05003007Z User manual XSoft-CoDeSys-2, PLC programming XC152 - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003007Z_EN.pdf
MN048008ZU Manual XSOFT-CODESYS-3, PLC programming	
MN048008ZU Handbuch XSOFT-CODESYS-3, SPS-Programmierung - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN048008ZU_DE.pdf
MN048008ZU Manual XSOFT-CODESYS-3, PLC programming - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN048008ZU_EN.pdf