PHŒNIX CONTACT

Controller - AXC F 1152 - 1151412

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PLCnext Control for the direct control of Axioline F I/Os. With two Ethernet interfaces. Complete with connector and bus base module.

Product Description

The controllers of the PLCnext Control AXC F 1152 family for the Axioline I/O system are fast, robust, and easy to use. They were consistently designed for maximum performance, easy handling and use in harsh industrial environments.

Your advantages

- ☑ PROFINET support
- ☑ Connection to PROFICLOUD
- ☑ Numerous protocols supported such as: http, https, FTP, SNTP, SNMP, SMTP, SQL, MySQL, DCP, etc.
- ☑ Up to 63 AXIO I/O modules can be mounted side by side
- ☑ 2 x Ethernet interfaces (integrated switch)
- ☑ Increased resistance to EMI
- ☑ Extended temperature range of -25°C ... +60°C
- ☑ Linux operating system
- ☑ Supports high-level languages

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4063151149420

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

Width	45 mm
Height	126.93 mm

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Technical data

Dimensions

Depth	75 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C up to 2000 m above mean sea level (observe derating)
	-25 °C ... 55 °C up to 3000 m above mean sea level (observe derating)
	≤ 55 °C (with max. 1 A on U_{Bus})
	> 55 °C ... 60 °C (only in conjunction with an Axioline F power module AXL F PWR 1H (order number 2688297))
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	5 % ... 95 % (according to DIN EN 61131-2)
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	58 kPa ... 106 kPa (up to 4500 m above mean sea level)
Shock	30g, 11 ms period, half-sine shock pulse, according to IEC 60068-2-27
Vibration (operation)	5g

Control system

Engineering tool	PLCnext Engineer
	Eclipse
Programming languages supported	Programming in acc. with IEC 61131-3
	C++
	C#
	Java
	Manufacturer-specific
Supports cloud computing	yes
Cloud platform	Proficloud

General data

Processor	Arm® Cortex®-A9 1x 800 MHz
Operating system	Linux
RAM	512 Mbyte DDR3 SDRAM

IEC 61131 runtime system

Engineering tool	PLCnext Engineer
	Eclipse
Program memory	8 Mbyte
Mass storage	16 Mbyte
Retentive mass storage	48 kByte (NVRAM)
Realtime clock	Yes
Accuracy realtime clock	1.73 s/day = 20 ppm at 25 °C

Fieldbus function

Amount of process data	max. 8192 Bit (per station)

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Technical data

Fieldbus function

	max. 4096 Bit (Axioline F local bus (input))
	max. 4096 Bit (Axioline F local bus (output))
Number of supported devices	max. 63 (per station)
Number of local bus devices that can be connected	max. 63 (observe current consumption)
Program memory	8 Mbyte

Data interfaces

Interface	Axioline F local bus
Number	1
Connection method	Bus base module
Transmission speed	100 Mbps
Interface	Ethernet
Number	2
Connection method	RJ45 jack
Transmission speed	10/100 Mbps (full duplex)
Protocols supported	HTTP
	HTTPS
	SFTP
	SNTP
	SNMP
	IPsec
	syslog
	OPC UA

PROFINET

Device function	PROFINET controller, PROFINET device
Specification	Version 2.3
Update rate	min. 1 ms (4 devices)
	min. 4 ms (16 devices)

Mechanical design

Weight	215 g
Diagnostics display	No
Controller redundancy	No
Safety function	No

Standards and Regulations

Vibration (storage/transport)	5g
Shock	30g, 11 ms period, half-sine shock pulse, according to IEC 60068-2-27
Vibration (operation)	5g
Shock (operation)	10g (Bump endurance test according to DIN EN 60068-2-27)

Environmental Product Compliance

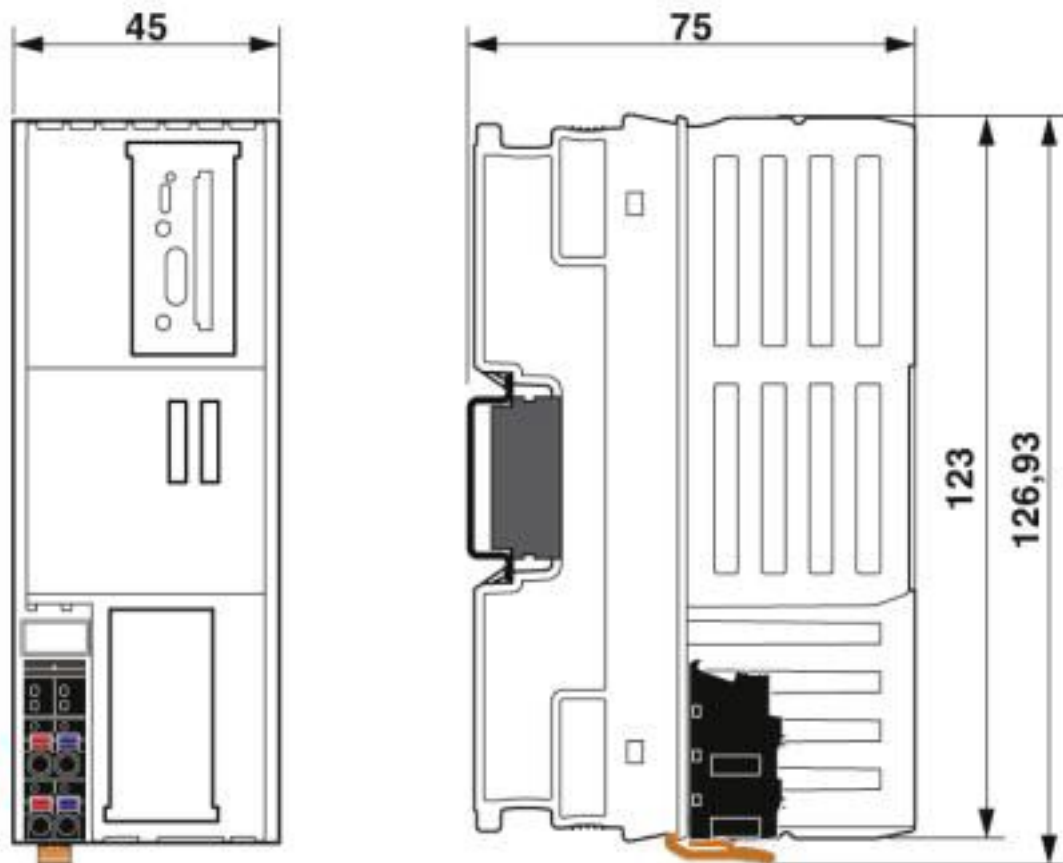# Controller - AXC F 1152 - 1151412

Technical data

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

Drawings

Dimensional drawing

Classifications

eCl@ss

eCl@ss 10.0.1	27242207
eCl@ss 4.0	27240602
eCl@ss 4.1	27240602
eCl@ss 5.0	27242700
eCl@ss 5.1	27242700
eCl@ss 6.0	27242200
eCl@ss 7.0	27242207
eCl@ss 8.0	27242207
eCl@ss 9.0	27242207

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Classifications

ETIM

ETIM 3.0	EC001045
ETIM 4.0	EC001435
ETIM 5.0	EC000236
ETIM 6.0	EC000236
ETIM 7.0	EC000236

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
Nominal voltage UN		125 V	
Nominal current IN		1 A	

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
Nominal voltage UN		125 V	
Nominal current IN		1 A	

cULus Listed	

Accessories

Accessories

I/O component

Controller - AXC F 1152 - 1151412

Accessories

Extension module - AXC F IL ADAPT - 1020304

Right-alignable Inline adapter terminal (INTERBUS master) for one PLCnext Control device for setting up a PLCnext Technology Inline station

Power module - AXL F PWR 1H - 2688297

Axioline F, Power module for the logic supply U_{Bus}, max. 4 A, degree of protection: IP20, including bus base module and Axioline F connector

Parameterization memory

Program / configuration memory - SD FLASH 8GB PLCNEXT MEMORY - 1061701

Program and configuration memory for storing the application programs and other files in the file system of the PLC, plug-in, 8 GB.

Program / configuration memory - SD FLASH 2GB PLCNEXT MEMORY - 1043501

Program and configuration memory for storing the application programs and other files in the file system of the PLC, plug-in, 2 GB.

Programming

Software - PLCNEXT ENGINEER - 1046008

Engineering software platform for Phoenix Contact automation controllers. PLCnext Engineer is IEC 61131-3-compliant and is available free of charge under Downloads. Its functionality can be extended using paid add-ins. To do this, open the license configurator via the "Configure" button.

Programming cable

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Accessories

Connecting cable - CAB-USB C/ USB C/1,8M - 1021809

Connecting cable, for connecting the controller to a PC from USB C to USB C

Connecting cable - CAB-USB A/ USB C/1,8M - 2404677

Connecting cable, for connecting the controller to a PC from USB A to USB C

Spare parts

Bus connector - AXL BS BK - 2701422

Axioline F bus base module for housing type BK

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