Controller - AXC F 3152 - 1069208

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

Product Description

The controllers of the PLCnext Control AXC F 3152 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 controller and PROFINET device
- 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
- 3 independent Ethernet interfaces
- 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
GTIN	4 055626 741192
GTIN	4055626741192
Custom tariff number	85371091

Technical data

Dimensions

Width	100 mm
Height	126.93 mm
Depth	75 mm

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Technical data

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	2x 1.3 GHz
Operating system	Linux
RAM	2048 Mbyte

IEC 61131 runtime system

Engineering tool	PLCnext Engineer
	Eclipse
Program memory	16 Mbyte
Mass storage	32 Mbyte
Retentive mass storage	1 Mbyte
Realtime clock	Yes

Fieldbus function

Amount of process data	max. 8192 Bit (per station)
	max. 4096 Bit (Axioline F local bus (input))
	max. 4096 Bit (Axioline F local bus (output))
Number of supported devices	max. 63 (per station)

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Technical data

Fieldbus function

Number of local bus devices that can be connected	max. 63 (observe current consumption)
Program memory	16 Mbyte

Data interfaces

Interface	Axioline F local bus
Number	1
Connection method	Bus base module
Interface	Ethernet
Connection method	RJ45 jack
Transmission speed	10/100/1000 Mbps

PROFINET

Device function	PROFINET controller, PROFINET device
Specification	Version 2.3
Update rate	min. 1 ms (32 participants)
	min. 4 ms (128 participants)

Power supply

Typical current consumption	typ. 260 mA (without I/Os and U_L = 24 V)
	typ. 504 mA (With 1 A at U_{Bus} for the I/Os and U_L = 24 V)
Max. current consumption	max.
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC
Residual ripple	± 5 %
Power dissipation	max.

Mechanical design

Weight	498 g

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)