Controller - AXC 3050 - 2700989

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Axiocontrol for the direct control of Axioline F I/Os. With 3 Ethernet interfaces for the additional connection of distributed I/Os via PROFINET, Modbus TCP or TCP/IP. Programming according to IEC 61131-3. Includes connector plug and marking field.

Product Description

The AXC 3050 modular controller for the Axioline I/O system is fast, robust, and easy, i.e., it is consistently designed for maximum performance, easy handling, and use in harsh industrial environments.

Why buy this product

- PROFINET controller and PROFINET device
- Modbus/TCP-Client
- 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
- Integrated UPS for targeted shutdown of the application
- Programming and configuration via USB
- Web server HTML5 and JAVA
- SD card up to 2 GB as optional plug-in parameterization memory
- 3x Ethernet interfaces
- Increased resistance to EMI
- Extended temperature range of -25°C … +60°C
- Integrated technology functions such as fast counters, incremental encoder inputs, and event tasks

Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	460.000 g
Custom tariff number	85371099
Country of origin	Germany

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Technical data

Note

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

Dimensions

Width	100 mm
Height	125.9 mm
Depth	74 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C (up to 2000 m above mean sea level)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (assembly)	-5 °C ... 60 °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 mean sea level)
Air pressure (storage/transport)	58 kPa ... 106 kPa (up to 4500 m above sea level)
Shock	30g, 11 ms period, half-sine shock pulse, according to IEC 60068-2-27
Vibration (operation)	5g

Control system

Programming tool	PC WORX
Diagnostics tool	DIAG+

Mechanical design

Diagnostics display	No
Controller redundancy	No

Data interfaces

Interface	Axioline F local bus
Number	1
Connection method	Bus base module
Transmission speed	100 MBit/s
Interface	Parameterization/operation/diagnostics
Number	1
Connection method	Micro USB type B
	USB type A, socket
Interface	Ethernet
Number	3
Connection method	RJ45 socket

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Technical data

Data interfaces

Transmission speed	10/100 MBit/s

Power supply

Typical current consumption	typ. 408 mA (without I/Os and U_L = 24 V)
Max. current consumption	max. 976 mA (with 2 A at U_{Bus} for the I/Os and U_L = 24 V)
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC
Residual ripple	± 5 %
Power dissipation	max. 9.8 W

Fieldbus function

Number of supported devices	max. 63
Number of local bus devices that can be connected	max. 63 (observe current consumption)

General data

Processor	Intel® Atom™ E660 1.3 GHz

Direct I/Os

Without analog input	yes
Without analog output	yes
Without pulse direction output	yes
Without counter input	No
Input name	Counter input for 24 V signals
Number of inputs	max. 2 (via any digital inputs of the Axioline F modules)
Input frequency	max. 100 kHz (with AXL F DI16/1 HS 1H module)

IEC 61131 runtime system

Programming tool	PC WORX
Program memory	4 Mbyte
Mass storage	8 Mbyte
Retentive mass storage	128 kByte
Number of control tasks	16
Realtime clock	Yes

Standards and Regulations

Shock	30g, 11 ms period, half-sine shock pulse, according to IEC 60068-2-27
Vibration (storage/transport)	5g
Vibration (operation)	5g
Shock (operation)	10g (Bump endurance test according to EN 60068-2-29)

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Classifications

eCl@ss

eCl@ss 4.0	27240602
eCl@ss 4.1	27240602
eCl@ss 5.0	27242589
eCl@ss 5.1	27242590
eCl@ss 6.0	27242590
eCl@ss 7.0	27242590
eCl@ss 8.0	27242207
eCl@ss 9.0	27242207

ETIM

ETIM 3.0	EC001045
ETIM 4.0	EC001435
ETIM 5.0	EC000236

UNSPSC

UNSPSC 6.01	81111810
UNSPSC 7.0901	81111810
UNSPSC 11	81111810
UNSPSC 12.01	81111810
UNSPSC 13.2	81111810

Approvals

Approvals

Approvals

EAC / UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

EAC	EAC-Zulassung

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Approvals

UL Listed http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 238705

cUL Listed http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 238705

cULus Listed

Accessories

Accessories

Drivers and interfaces

Software - AX OPC SERVER - 2985945



AX OPC SERVER, communication interface for OPC-capable visualization with PC WORX-based controls.

Parameterization memory

Memory - SD FLASH 512MB - 2988146



Program and configuration memory, plug-in, 512 Mbyte.

Memory - SD FLASH 512MB APPLIC A - 2701799



Program and configuration memory, plug-in, 512 MB with license key for functional block libraries, e.g., for: SNMP, SQL, wireless, motion functions, etc.

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Accessories

Memory - SD FLASH 512MB PDPI PRO - 2701801



Program and configuration memory, plug-in, 512 MB with license key for licensing the PDPI - PRO functional block for precise multi-channel controllers with self-optimization, additional functions: e.g., for setpoint processing, for heating and cooling functions.

Memory - SD FLASH 512MB PDPI BASIC - 2701800



Program and configuration memory, plug-in, 512 MB with license key for licensing the PDPI - BASIC functional block for precise multi-channel controllers with self-optimization, e.g., for heating and cooling functions or hydraulic movements.

Program / configuration memory - SD FLASH 2GB - 2988162



Program and configuration memory

Program / configuration memory - SD FLASH 2GB APPLIC A - 2701190



Program and configuration memory, plug-in, 2 Gbytes with license key for function block libraries, e.g., for: SNMP, SQL, wireless, motion functions, etc.

Programming

Software - PC WORX DEMO - 2985725



Software package for PC-based automation solutions, PC WORX DEMO, contains all 5 IEC languages, with MSFC compiler, max. 16 bytes input and output data

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Accessories

Software - PC WORX BASIC LIC - 2985275



Software package for PC-based automation solutions, PC WORX BASIC license, contains all 5 IEC languages, without MSFC compiler, max. 2048 byte input and output data, version-specific license key

Software - PC WORX PRO LIC - 2985385



Software package for PC-based automation solutions, PC WORX PRO license, contains all 5 IEC languages, with MSFC compiler, max 128 kB input and output data, version-specific license key

Programming cable

Connecting cable - CAB-USB A/MICRO USB B/2,0M - 2701626



Connecting cable, for connecting the controller to a PC for PC Worx and LOGIC+, USB A to micro USB B, 2 m in length.

Spare parts

Bus connector - AXC BS - 2701582



Axiocontrol bus base module for AXC 3xxx

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