



TYPE APPROVAL CERTIFICATE
No. ELE008423XG/001

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Automation terminals
<i>Type</i>	AXIOLINE Modules
<i>Applicant</i>	PHOENIX CONTACT GMBH & CO KG FLACHSMARKTSTRASSE 8 32825 BLOMBERG GERMANY
<i>Manufacturer</i>	PHOENIX CONTACT ELECTRONICS GMBH
<i>Place of manufacture</i>	DRINGENNAUER STRASSE 30 31812 BAD PRYMONT GERMANY
<i>Reference standards</i>	Rules for the Classification of Ships - Part C - Machinery Systems and Fire Protection; Ch. 3; Sec. 8, Table 1

Issued in **Hamburg** on **June 18, 2025**. *This Certificate is valid until* **November 23, 2028**

Giuseppe Russo

RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

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AXIOLINE Modules

LISTED ARTICLES				
Article no.	Designation	Description	HW-vers.	FW-vers.
2700988	AXC 1050	Controller Module	07	3xx
2404701	AXC F 1050	Controller Module	05	4xx
2404267	AXC F 2152	Controller Module	07	202x
1069208	AXC F 3152	Controller Module	04	202x
2688093	AXL F CNT2 INC2 1F	Counter/incremental encoder input module 2 channels each	05	1xx
2688297	AXL F PWR 1H	Power module	00	-
2688666	AXL F RS UNI 1H	Serial interface module RS232,422 or 485	02	1xx
2702668	AXL F IF CAN 1H	Interface module CAN bus	01	1xx
2688899	AXL F BK EC	Bus coupler	04	1xx
2688394	AXL F BK EIP	Bus coupler	04	1xx
2688459	AXL F BK ETH	Bus coupler	05	1.xx
2702177	AXL F BK ETH NET2	Bus coupler	04	1xx
2688530	AXL F BK PB	Bus coupler	05	2xx
2701815	AXL F BK PN	Bus coupler	05	1xx
2403869	AXL F BK PN TPS	Bus coupler	03	1xx
2701686	AXL F BK S3	Bus coupler	05	1xx
2701457	AXL F BK SAS	Bus coupler	04	1xx
2688381	AXL F DO8/2 2A 1H	Digital output module 8 channels	03	-
2701813	AXL F DO16 FLK 1H	Digital output module 16 channels	01	-
2688349	AXL F DO16/1 1H	Digital output module 16 channels	03	-
1027904	AXL F DO16/2 2H	Digital output module 16 channels	00	1xx
2688048	AXL F DO16/3 2F	Digital output module 16 channels	05	-
2688051	AXL F DO32/1 1F	Digital output module 32 channels	05	-
1004925	AXL F DO32/1 2H	Digital output module 32 channels	00	1xx
2702053	AXL F DO64/1 2F	Digital output module 64 channels	03	-
2701916	AXL F DI8/1 DO8/1 1H	Digital input/output module 8 channels each	02	-
2702106	AXL F DI16/1 DO16/1 2H	Digital input/output module 16 channels each	02	1xx
2688310	AXL F DI16/1 1H	Digital input module 16 channels	02	-
2688022	AXL F DI16/4 2F	Digital input module 16 channels	05	-
2688035	AXL F DI32/1 1F	Digital input module 32 channels	05	-
2702052	AXL F DI32/1 2H	Digital input module 32 channels	01	-
2701450	AXL F DI64/1 2F	Digital input module 64 channels	02	-
2688527	AXL F AO4 1H	Analog output module for voltage/current 4 channels	02	1xx
2688080	AXL F AO8 1F	Analog output module for voltage/current 8 channels	05	1xx
2702072	AXL F AI2 AO2 1H	Analog input / output module for voltage/current	02	1xx
2688501	AXL F AI4 U 1H	Analog input module for voltages 4 channels bipolar	03	1xx
2688491	AXL F AI4 I 1H	Analog input module for currents 4 channels	03	1xx
2688064	AXL F AI8 1F	Analog input module for voltage/current 8 channels	06	1xx
2688556	AXL F RTD4 1H	Analog input module for temperature sensors 4 channels	01	1xx
2688077	AXL F RTD8 1F	Analog input module for temperature sensors 8 channels	07	1xx
2688598	AXL F UTH4 1H	Analog input module for thermocouple sensors 4 channels	00	1xx

XC ARTICLES				
Article no.	Designation	Description	HW-vers.	FW-vers.
2701295	AXC 1050 XC	Controller Module	07	3xx
1089334	AXC F 1050 XC	Controller Module	05	4xx
1020304	AXC F IL ADAPT	Adapter terminal (INTERBUS master), right-alignable		
2403115	AXC F XT ETH 1TX	Ethernet interface, left-alignable		
2701239	AXL F CNT2 INC2 XC 1F	Counter/incremental encoder input module 2 channels each	01	1xx
2702006	AXL F RS UNI XC 1H	Serial interface module RS232,422 or 485	00	1xx
2702008	AXL F AI4 U XC 1H	Analog input module for voltages 4 channels bipolar	02	1xx
2702007	AXL F AI4 I XC 1H	Analog input module for currents 4 channels	03	1xx
2702017	AXL F DI8/1 DO8/1 XC 1H	Digital input/output module 8 channels each	03	-

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AXIOLINE Modules

XC ARTICLES (continues)				
Article no.	Designation	Description	HW-vers.	FW-vers.
1547350	AXC F2152 XC	Controller Module	00	2023.0
2701949	AXL F BK ETH XC	Bus coupler	01	1xx
2701222	AXL F BK PN XC	Bus coupler	02	1xx
2701230	AXL F DO32/1 XC 1F	Digital output module 32 channels	02	-
2701228	AXL F DO16/3 XC 2F	Digital output module 16 channels	01	-
1035427	AXL F DO8/2 2A XC 1H	Digital output module 8 channels	02	-
2701224	AXL F DI16/4 XC 2F	Digital input module 16 channels	01	-
2701226	AXL F DI32/1 XC 1F	Digital input module 32 channels	01	-
2702153	AXL F AO4 XC 1H	Analog output module for voltage/current 4 channels	01	1xx
2701237	AXL F AO8 XC 1F	Analog output module for voltage/current 8 channels	03	1xx
2701232	AXL F AI8 XC 1F	Analog input module for voltage/current 8 channels	02	1xx
2701235	AXL F RTD8 XC 1F	Analog input module for temperature sensors 8 channels	02	1xx

Note: The difference between XC products and listed products is a coated PCB's.

Documents:

User manual: - 7982_en_06 dated 2017-02-22; 107708_en_00 dated 2018-01-17;

Data sheets: - 8124_en_01 dated 2015-05-27; 8184_en_01 dated 2014-06-18; 8186_en_01 dated 2015-10-12;

- 8283_en_03 dated 2015-09-11; 8419_en_02 dated 2015-10-12; 8479_en_07 dated 2014-10-27;

- 8566_en_01 dated 2015-05-19; 8623_en_01 dated 2013-06-12; 8660_en_02 dated 2015-04-20;

- 8672_en_02 dated 2014-10-27; 105645_en_01 dated 2014-06-03; 105686_en_00 dated 2014-07-29;

- 105688_en_02 dated 2016-03-02; 106048_en_02 dated 2015-10-12; 106118_en_03 dated 2015-04-29;

- 106233_en_01 dated 2015-10-12; 106235_en_01 dated 2015-02-23; 106378_en_00 dated 2015-02-23;

- 107308_en_00 dated 2016-09-27; 108164_en_01 dated 2018-01-22; 108258_en_01 dated 2018-01-22;

- 2688022 AXL F DI 16-4 dated 15.08.2011; 2688035 AXL DI 32-1 dated 15.08.2011;

- 2688048 AXL DO 16-3 dated 10.03.2010; 2688051 AXL DO 32-1 dated 30.03.2011; 2688064 AXL AI 8 dated 13.12.2011;

- 2688077 AXL F RTD8 1F dated 25.03.2013; 2688080 AXL AO 8 dated 17.01.2012;

- 2688093 AXL CNT 2-INC 2 dated 26.11.2010; 2688459 AXL F BK ETH dated 16.05.2013;

- 2688491 AXL F AI4 I 1H dated 24.06.2013; 2688501 AXL F AI4 U 1H dated 24.06.2013;

- 2688666 AXL F RS UNI 1H dated 05.04.2013; 2701295 AXC 1050-XC dated 16.05.2013;

- 2701916 AXL F DI81 DO8-1 1H dated 31.07.2013; 108629 AXC F IL ADAPT dated 05.10.2018;

- 107237 AXC F XT ETH 1TX dated 04.03.2019;

Documents: - V_V_Report_AXC1050_FW_3_0_2 Rev. 1969812 dated 2018-05-29; Declaration of Variants AXL F BK Variants 07.09.2023, Manufacturers assessment AXL F 2125 XC

Test reports:

Phoenix Testlab GmbH: - E160191E1 dated 18.01.2017; U160191E1 dated 21.02.2017; E132617E1 dated 11.11.2013;

- E132617E2 dated 11.11.2013; U132617E1 2nd version dated 25.11.2013; U132617E2 2nd version dated 25.10.2013;

- E180501E1 2nd version dated 04.07.2018; U180501E1 dated 30.05.2018;

- E191879E1 dated 06.02.2020, U191879E1 dated 06.02.2020, E221799E1 dated 01.03.2023,

- S221799E1 dated 20.12.2022, U221799E1 2nd version dated 11.05.2023, E231093E2 dated 29.08.2023

Phoenix Contact: - Declaration of changes on AxioLine XC dated 12.08.2014; Declaration of variants dated 07.07.2014;

Manufacturer's Declaration AXL F BK PN Variant, dated 31.03.2021

Additional Place of manufacture:

Phoenix Contact Development and Manufacturing, Inc.

586 Fulling Mill Road

Middletown, PA 17057, Harrisburg

USA

Remarks:

- The products fulfill **EC-Code: 3a1**.

- The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone if filter of type:

ME-MAX-NEF/QUINT20A (2319919) is used.

Hamburg June 18, 2025

