

Component Certificate

Bachmann electronic GmbH
Kreuzäckerweg 33
AT-6800 Feldkirch
Austria

Type of equipment	Protection device	
Product Name	Product family GMP232/x2. GMP232/x2 CC GMP232/12 GMP232/12 cc / GMP232/22 GMP232/22 cc GMP232/32 GMP232/32 cc GMP232/42 GMP232/42 cc GMP232/52 GMP232/52 cc	
Technical data	Nominal measuring voltage: U_r = 120 V, 690 V, 1000 V Nominal measuring current: I_r = 1 A or 5 A Nominal measuring frequency: f = 35 – 65 at 50 Hz 45 – 75 at 60 Hz Power supply voltage: U_{DC} = 18 – 34V, typ. 24V	
Certification scheme	P30VA01 Rev. 09/11.24	TÜV NORD Certification Process for Grid Integration Certification
Grid codes	DIN EN 50549-1 (VDE 0124-549-1): 2020-10	Requirements for generating plants to be connected in parallel with distribution networks: - Part 1: Connection to a LV distribution network - Generating plants up to and including Type B
	DIN EN 50549-2 (VDE 0124-549-2): 2020-10	Requirements for generating plants to be connected in parallel with distribution networks: - Part 2: Connection to a MV distribution network - Generating plants up to and including Type B
Scope of assessment	Chapter 4.9 Chapter 4.10 Chapter 4.13	Interface protection Connection and starting to generate electrical power Requirements regarding single fault tolerance of interface protection system and interface switch (only DIN EN 50549-1)
Additional standards/ guidelines	EN 50549-10 2022	Requirements for generating plants to be connected in parallel with distribution networks: - Part 10: Tests for conformity assessment of generating units

The components comply with the requirements of the grid codes specified above, with restrictions. For further details and technical specifications, please refer to Annex 1, which consists of 3 pages.

Certificate Registration No. 44 799 13137976	valid from 2025-08-27
Evaluation Report No. 3538 2862	valid till 2030-08-26

Essen, 2025-08-27
Rev. 1.0

Certification body of TÜV NORD CERT GmbH

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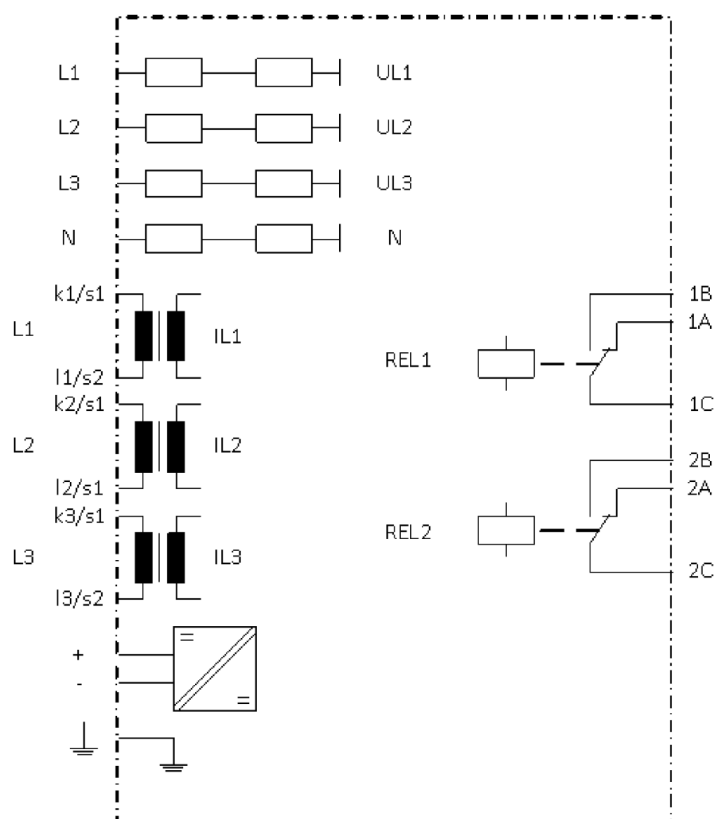


ANNEX 1

to the Component Certificate with Registration No. 44 799 13137976

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Schematic structure of Protection device



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Technical data of Protection device

Designation	GMP232/12 GMP232/12 cc	GMP232/22 GMP232/22 cc	GMP232/32 GMP232/32 cc	GMP232/42 GMP232/42 cc	GMP232/52 GMP232/52 cc
Auxiliary power supply	18 – 34 V _{DC} , typ. 24 V _{DC}				
Power consumption	max. 1,3W				
Nominal measuring voltage	120 V _{RMS}	690 V _{RMS}	120 V _{RMS}	690 V _{RMS}	1000 V _{RMS}
Nominal measuring current	1 A _{RMS}		5 A _{RMS}		1 A _{RMS}
Nominal measuring frequency	35 - 65 Hz at 50 Hz 45 -75 Hz at 60 Hz				
Burden (current measurement)	10 mVA		250 mVA		10 mVA
Burden (voltage measurement)	>3,2 MΩ				>5 MΩ
Relay outputs	2				
Relay inputs	0				
Construction revision	120.000 / 125.000				
Software version (SW)	1.xx R				

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Remarks

Protection against unauthorised manipulation

To protect the device configuration as well as the limit values and parameters of the protective functions against unauthorised manipulation, the corresponding security features must be activated on the control CPU. An application must be used to ensure a password structure. This is described in the user manual.

Inputs

The protection devices of the GMP232/x2 product family have no relay inputs. The required inputs can be implemented through any digital channel of an M200 module.

Application

An additional application is required to switch to a narrower frequency band as well as to activate an additional switch in the event of a coupling switch failure. These are described in the manufacturer's declaration and will be included in the user manual.

Quality management system

The manufacturer has demonstrated the certification of its quality management system for its factory in accordance with ISO 9001 and will maintain this for the duration of the validity of this unit certification in accordance with a manufacturer's declaration.

Restrictions

Single fault safety according to DIN EN 50549-1

To ensure single fault security, two identical assemblies with identical parameterisation must be used in accordance with the manufacturer's specifications.

Interference immunity

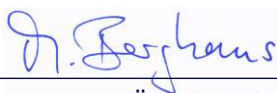
The external power supply is not part of the protective device and therefore not part of the assessment.

The interference immunity requirements must be covered in the external auxiliary power supply.

Appendix to the Certificate

A1. Evaluation report no. 3538 2862 version 1.0

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