Certificate of Conformity

Bachmann electronic GmbH
Kreuzäckweg 33
AT-6800 Feldkirch
Austria

Type of equipment	Protective 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
Gridcodes	PTPiREE v1.3 01.10.2024	Warunki i procedury wykorzystania certyfikatów w procesie przyłączenia modułów wytwarzania energii do sieci elektroenergetycznych
	PN-EN 50549-1: 2019-02 /Ap1:2020-08	Wymagania dla instalacji generacyjnych przeznaczonych do równoległego przyłączania do publicznych sieci dystrybucyjnych Część 1: Przyłączanie do sieci dystrybucyjnej nN Instalacje generacyjne aż do typu B i włącznie z nim
	PN-EN 50549-2: 2019-02 /Ap1:2020-08	Wymagania dla instalacji generacyjnych przeznaczonych do równoległego przyłączania do publicznych sieci dystrybucyjnych Część 2: Przyłączanie do sieci dystrybucyjnej SN Instalacje generacyjne aż do typu B i włącznie z nim
Scope of assessment		
PN-EN 50549-1 / PN-EN 50549-2	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 PN-EN 50549-1)
PTPiREE v1.3	Chapter 3	Sposób sprawdzenia zdolności

The components comply with the requirements of the Gridcodes specified above, with restrictions. For further details and technical specifications, please refer to Annex 1 (consist of 3 pages).

Certificate Registration No. 44 876 13137905 valid from 2026-05-05
Evaluation Report No. 3542 2981 valid till 2031-05-04

Essen,2026-05-05
Rev. 1.0

Certification body of TÜV NORD CERT GmbH

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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
	Bank Nastaw dla Polski - projekt 2024 26.03.2024	Zbiór nastaw i kryteriów zabezpieczeniowych oraz parametrów konfiguracyjnych charakterystyk regulacyjnych dla MWE typu A i B

Essen, 2026-05-05
Rev. 1.0

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ANNEX 1

for the Certificate of Conformity with the Registration No. 44 876 13137905

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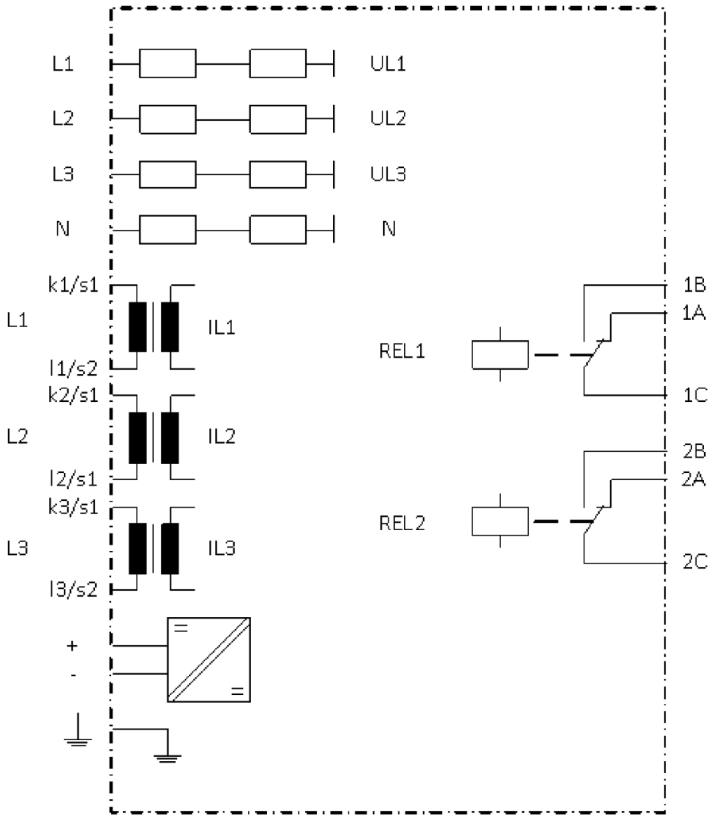
Schematic structure of Protection device



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ANNEX 1

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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 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 PN-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. 3542 2981 Version 1.0

Essen, 2026-05-05

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