

Component Certificate

Certificate holder	Bachmann electronic GmbH Kreuzäckerweg 33 6800 Feldkirch Austria		
Type of component	Protection device		
Description of component	GMP232/x2 & GMP232/x2 CC – Product Family		
Technical data	Nominal measuring voltage:	U_N	= 120 V, 690 V, 1000 V
	Nominal measuring current:	I_N	= 1 A or 5 A
	Nominal measuring frequency:	f	= 35 – 65 for 50 Hz Grid
		f	= 45 – 75 Hz for 60 Hz Grid
	Nominal supply voltage:	U	= 18 – 34 V typ. 24 V
Certification scheme	P30VA01 Rev. 09/11.24	TÜV NORD-Zertifizierungsverfahren zur Netzanschlusszertifizierung (TÜV NORD certification procedure for grid code compliance)	
Standards	Engineering Recommendation G99 Issue 1, Amendment 10 4 March 2024 Chapter 10	Requirements for the connection of generation equipment in parallel with public distribution networks on or after 27 April 2019	

The component complies with the requirements of the above listed certification scheme and standard with obligations. The obligations to fulfill the requirements and further technical data are listed in annex 1 (3 Pages).

Registered No. 44 799 13137973
Evaluation Report No. 3532 3653
File reference (ZA) 35384582

Validity
from 2024-12-23
until 2027-06-08


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Certification body at
TÜV NORD CERT GmbH

Essen, 2024-12-23
Rev. 3.0

TÜV NORD CERT GmbH

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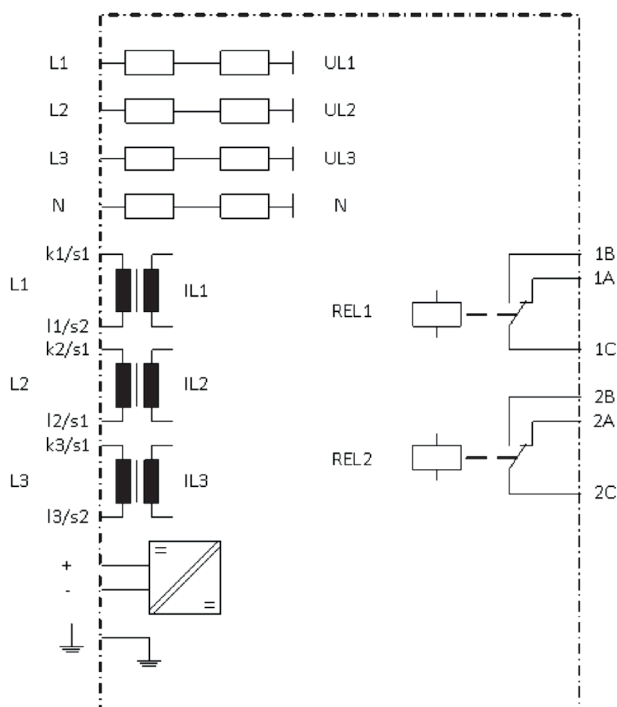
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ANNEX

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Schematic structure



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Technical Data

Unit type	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
Nominal voltage	18 - 34 V _{DC} , typ. 24 V _{DC}				
Power consumption	max. 1.3 W				
Measuring voltage	120 V _{RMS}	690 V _{RMS}	120 V _{RMS}	690 V _{RMS}	1000 V _{RMS}
Measuring current	1 A _{RMS}		5 A _{RMS}		1 A _{RMS}
Measuring frequency	35 - 65 Hz for 50 Hz 45 - 75 Hz for 60 Hz				
Load (current measurement)	10 mVA		250 mVA		10 mVA
Load (voltage measurement)	>3.2 MΩ				>5.0 MΩ
Relay outputs	2				
Relay inputs	none				
Construction revision	120.000 / 125.000				
Software version (SW)	1.xx R				


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Notes

Additional technical data, according to Engineering Recommendation G99 Issue 1 in annex A, are given in the evaluation report (appendix A1)

The following protection functions were part of the conformity assessments:

- Over and under voltage
- Over and under frequency
- Loss of Mains (LoM) / Rate of Change of Frequency (RoCoF)
- Automatic Reconnection

Independently from the protection settings that were used for the tests shown in this report, the user must agree the whole protection setup with the responsible Distribution Network Operator DNO at installation site of the device

Restrictions

The final parameterization of the protection setting must be carried out by the manufacturer of the generating unit or by the installer of the power generating facility. The protection settings are not pre-configured. A wiring functional test must be carried out during commissioning for type tested protection device.

Appendix to the certificate

A1 Evaluation report no. 3532 3653 Version 3.0

A2 Measurement report no. 3532 3653-100 Version 1.0



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