


# Component Certificate

<b>Certificate holder</b>	<b>Bachmann electronic GmbH</b> Kreuzäckerweg 33 6800 Feldkirch Austria	
Type of component	Protection device	
<b>Description of component</b>	<b>GMP232/x2 &amp; GMP232/x2 CC – Product Family</b>	
Technical data	Nominal measuring voltage: $U_N = 120\text{ V}, 690\text{ V}, 1000\text{ V}$ Nominal measuring current: $I_N = 1\text{ A or }5\text{ A}$ Nominal measuring frequency: $f = 35 - 65\text{ Hz for }50\text{ Hz Grid}$ $f = 45 - 75\text{ Hz for }60\text{ Hz Grid}$ Nominal supply voltage: $U = 18 - 34\text{ V typ. }24\text{ V}$	
Certification scheme	P30VA01 Rev. 08/10.22	TÜV NORD-Zertifizierungsverfahren zur Netzanschlusszertifizierung (TÜV NORD certification procedure for grid code compliance)
Standards	Engineering Recommendation G99 Issue 1, Amendment 9 03 October 2022 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) 3535 5029

Validity  
from 2023-09-22  
until 2027-06-08

  
Dipl.-Ing. Malte Berghaus  
Certification body at  
TÜV NORD CERT GmbH

Essen, 2023-09-22  
Rev. 2.0

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[www.tuev-nord-cert.com](http://www.tuev-nord-cert.com)

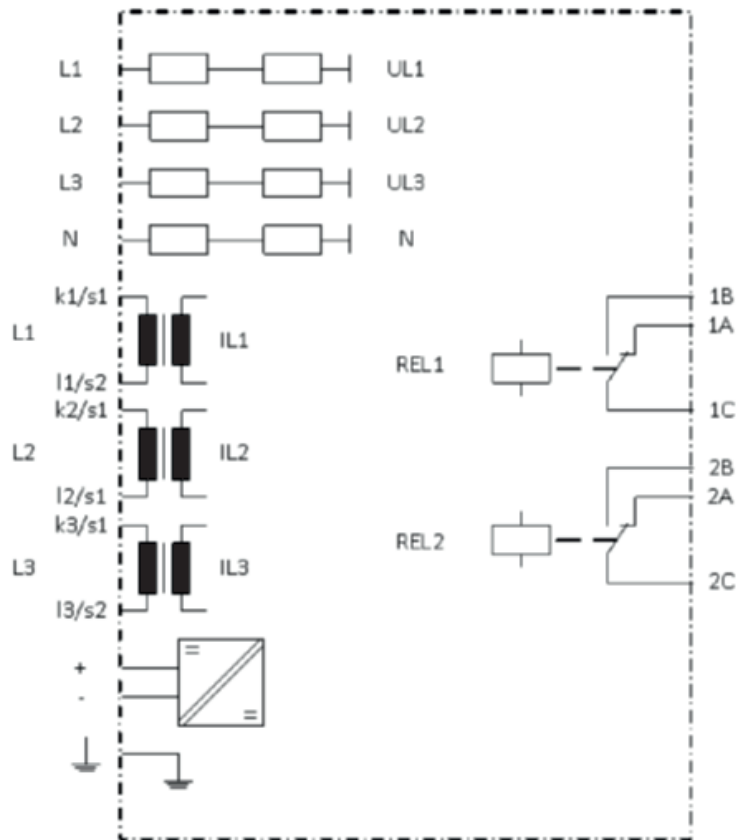
[gridcode@tuev-nord.de](mailto:gridcode@tuev-nord.de)

# ANNEX

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Schematic structure



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## ANNEX

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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 <sub>DC</sub> , typ. 24 V <sub>DC</sub>				
Power consumption	max. 1.3 W				
Measuring voltage	120 V <sub>RMS</sub>	690 V <sub>RMS</sub>	120 V <sub>RMS</sub>	690 V <sub>RMS</sub>	1000 V <sub>RMS</sub>
Measuring current	1 A <sub>RMS</sub>		5 A <sub>RMS</sub>		1 A <sub>RMS</sub>
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				
Software version (SW)	1.20 R				

  
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# ANNEX

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<b>Notes</b>	<p>Additional technical data, according to Engineering Recommendation G99 Issue 1 in annex A, are given in the evaluation report (appendix A1)</p> <p>The use of other firmware (construction Revision) and software version numbers is allowed if the differences are proved and confirmed by TÜV NORD CERT GmbH beforehand. The validity of a new software version will be attested by written confirmation and becomes part of the certificate.</p> <p>The following protection functions were part of the conformity assessments:</p> <ul style="list-style-type: none"><li>• Over and under voltage</li><li>• Over and under frequency</li><li>• Loss of Mains (LoM) / Rate of Change of Frequency (RoCoF)</li><li>• Automatic Reconnection</li></ul>
<b>Restrictions</b>	<p>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.</p> <p>A wiring functional test must be carried out during commissioning for type tested protection device.</p>
<b>Appendix to the certificate</b>	<p>A1 Evaluation report no. 3532 3653 version 2.0</p> <p>A2 Measurement report no. 3532 3653-100 Version 1.0</p>

  
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