

# Component Certificate

**Bachmann electronic GmbH**  
Kreuzäckerweg 33  
6800 Feldkirch  
Austria

Type of component: Protection device

Component: **GSP274 / GSP274cc**

Technical data:

Nominal measuring voltage	$U_N$	=	480 V
Nominal measuring current	$I_N$	=	5 A
Nominal measuring frequency	$f$	=	35 – 65 for 50 Hz Grid 45 – 75 Hz for 60 Hz Grid
Nominal supply Voltage	$U_{DC}$	=	18 – 34 V typ. 24 V

Certification programs: P30VA01 TÜV NORD Certification process for grid integration certification  
Rev 09/11.24

Standard: Engineering Requirements for the connection of generation equipment in parallel with public distribution networks on or after 27 April 2019  
Recommendation  
G99 Issue 1  
Amendment 10  
4 March 2024

Certification scope: Chapter 10 Protection:  
■ Over and Under Voltage  
■ Over and Under Frequency  
■ Loss of Mains (LoM) / Rate of Change of Frequency (RoCoF)  
■ Automatic Reconnection

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

Registered-No. 44 799 13137969  
Test Report No. 35384549

Validity  
from 2024-12-12  
until 2029-12-11



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

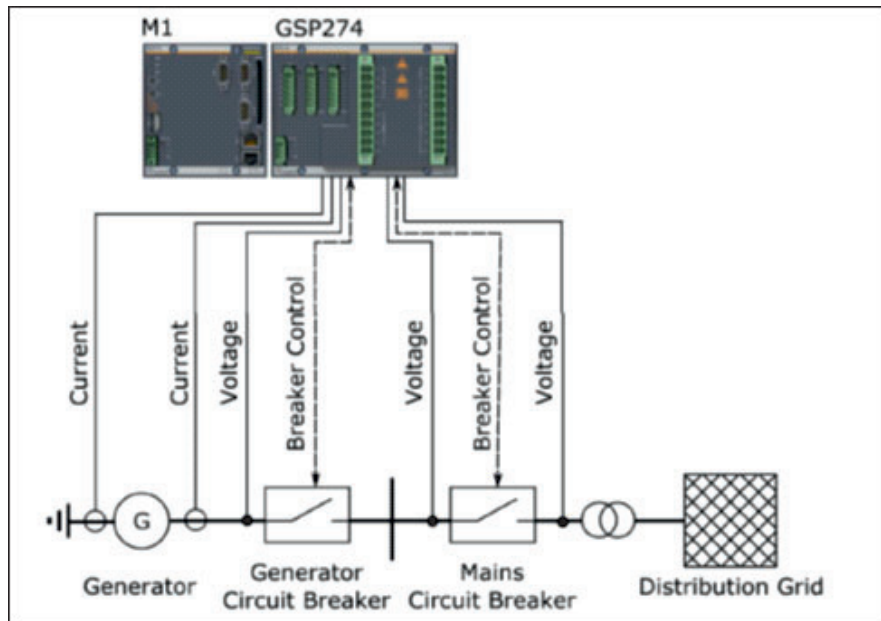
Essen, 2024-12-12  
Rev. 1.0

# ANNEX

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to Certificate Registration No. 44 799 13137969

Schematic structure



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# ANNEX

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Technical data:

Unit type	GSP274 / GSP274cc
Nominal voltage	18 - 34 V <sub>DC</sub> typ. 24 V <sub>DC</sub>
Power consumption	max. 2,9 W
Nominal measuring voltage	480 V <sub>RMS</sub>
Nominal measuring current	5 A <sub>RMS</sub>
Nominal measuring frequency	35 – 65 Hz for 50 Hz 45 – 75 Hz for 60 Hz
Load (current measurement)	250 mVA
Load (voltage measurement)	MAINS > 2MΩ GEN, BUS > 5MΩ
Relay outputs	2
Relay inputs	none
Construction revision	112.000
Software version (SW)	2.xxR



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TÜV NORD CERT GmbH

Am TÜV 1

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# ANNEX

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## to Certificate Registration No. 44 799 13137969

### Remarks:

The validity of the certificate depends on the correct implementation of the software applications and hardware version mentioned in the Evaluation report (Annex 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

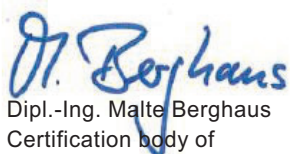
Independently from the protection settings that were used for the tests shown in the Evaluation report (A1), the user must agree the whole protection setup with the responsible Distribution Network Operator (DNO) at installation site of the device.

### Restrictions:

The final parameterization of the protection settings 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 devices.

### Annex:

A1 Evaluation report Nr. 35384549 Version 1.0  
A2 Summary of the test results

  
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