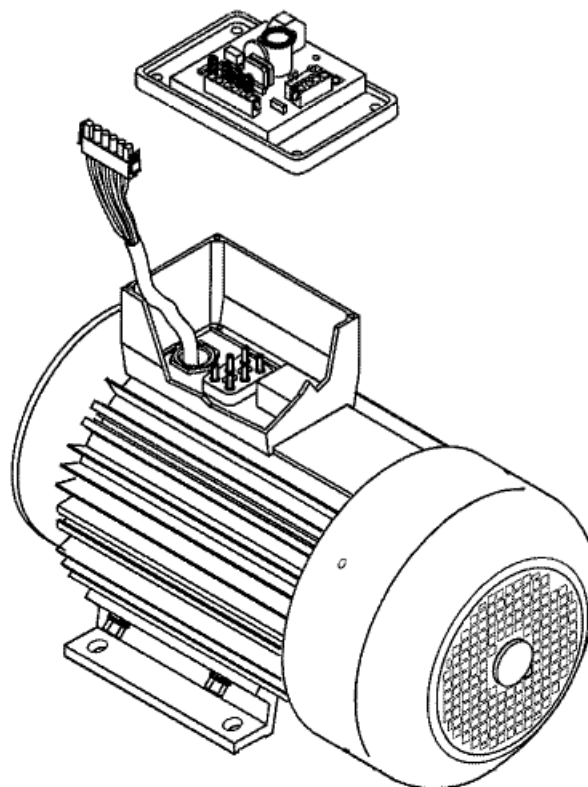


Troubleshooting in case of demagnetization of the generator



Troubleshooting instructions

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General information

Technical modifications after date of printing are not considered. Subject to change without notice.

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Validity of this document

This document applies to all synchronous generators of the types DGG (three-phase DC generators), DWG (three-phase AC generators) and WG (single-phase AC generators).

Manufacturer's address

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1 Safety precautions

Before starting work on the generator, please read the following safety precautions carefully and adhere to them. Furthermore, observe the safety precautions stated in the operating and installation instructions of the generator.



Error diagnostics and troubleshooting procedures on the generator may only be performed by qualified and authorized personnel.

DANGER
Risk of
personal injury
or death

Only perform work on the generator once it is switched off and de-energized. Mortal danger through electric shock! Engines that have been turned off must be secured against accidental restarting (e.g. by removing the ignition key and keeping it safe)!

The generator supplies highly dangerous voltages during operation! Mortal danger through electric shock!

Generator components may be very hot, not just during but also after operation. Burning hazard!

2 Troubleshooting procedure

Always observe the above safety precautions when working on the generator. For troubleshooting, proceed as follows:

1. Turn off the engine and make sure that it cannot be restarted (e.g. by removing the ignition key).
2. Wait until the generator is at a standstill and has cooled down, if applicable.

- Open the terminal box. Slightly lift the generator governor (Figure 1/1) off the terminal box and turn it over carefully as shown in Figure 1.

Make sure not to tear-off or damage the connecting cables of the generator governor integrated in the cover!

- Disconnect the connector (Figure 1/2) from the generator governor.

The connector is mechanically coded and thus cannot be plugged-in twisted.

- On contacts 1 and 2 of the connector, supply the generator with DC voltage of 24 V (see Figure 2):

- Positive on contact 1 (red connecting cable, F1)
- Negative on contact 2 (blue connecting cable, F2)
- Voltage source:
24 VDC / 1 A min.
- Duration of supply:
2 seconds min.

- Reconnect the connector to the generator governor, and close the terminal box again. When mounting the generator governor to the terminal box, make sure that no connecting wires are jammed or squeezed.
- Start the engine again. The generator should now work properly again.

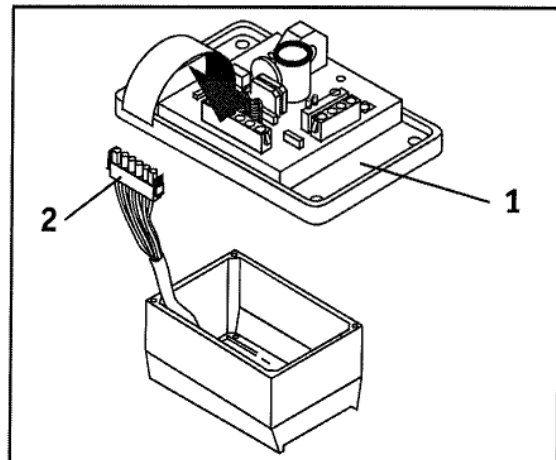


Figure 1

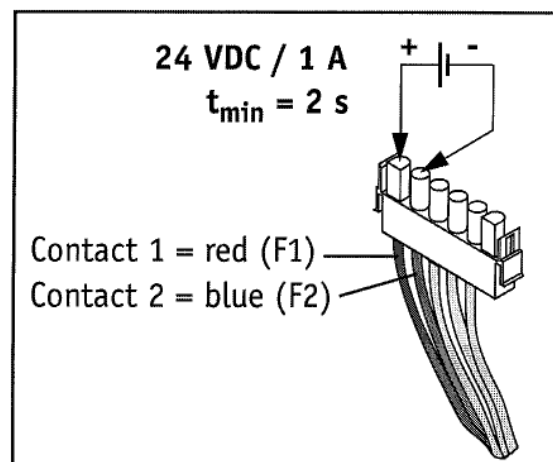


Figure 2