

INSTALLATION

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⚠ WARNING Electrocutation
 Insufficient earthing can lead to electrocution. Ensure the appliance is earthed according to locally applicable requirements.

⚠ WARNING Electrocutation
 If the power cable is faulty, replace it with a new one. The power cable should only be replaced by a qualified contractor.

! Material losses
 The specified voltage must match the mains voltage. Observe the type plate.

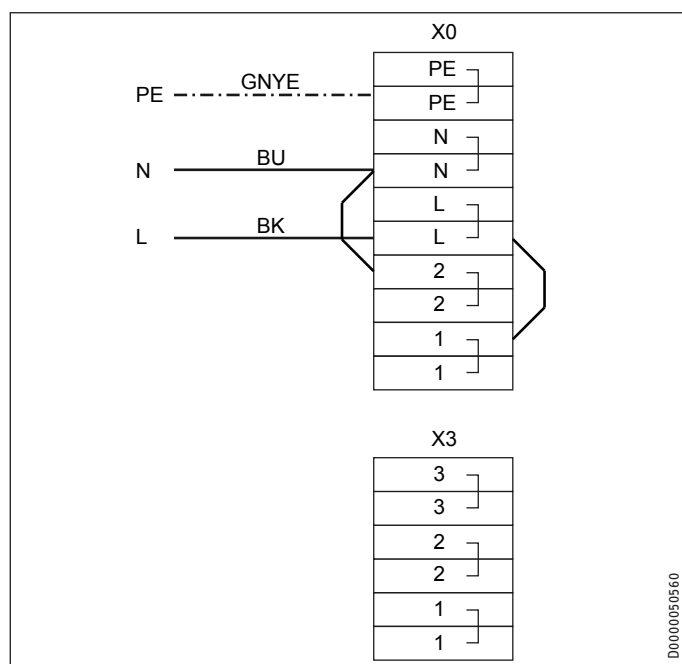
! Material losses
 Observe the MCB/fuse protection required for the appliance (see chapter "Specification / Data table").

! Material losses
 Never connect the appliance to the power supply before the DHW cylinder is filled.

The appliance is supplied with a flexible power cable without plug.

- ▶ If the power cable is not long enough, unclamp it from the appliance. Use a suitable installation cable.
- ▶ When routing the new power cable, ensure that it is waterproof as it passes through the existing cable grommet. Connect the connecting cable properly inside the appliance.

9.3.1 Standard connection (without external signal transmitter)



BK black
 BU blue
 GNYE green/yellow

9.3.2 Separate power supply to the impressed current anode

At the factory, the appliance is fitted with rechargeable batteries that ensure the power supply to the impressed current anode in the case of a power failure. If regular interruptions to the power supply are not anticipated, the batteries will require no maintenance.

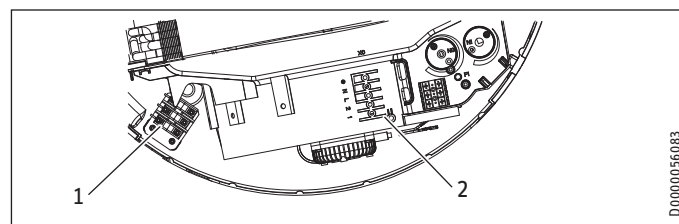
Every three years, a qualified contractor must replace the batteries for the impressed current anode in the following cases:

- The impressed current anode is not connected separately to a continuous power supply source and a switching contact regularly interrupts the power supply to the appliance.
- The security of supply is inadequate.

Neglecting to do this puts the appliance at risk of damage.

Replacing the batteries can be avoided by connecting the impressed current anode separately to a continuous power supply source. This continues to protect the DHW cylinder against corrosion if the rest of the appliance is switched off, e.g. when connected to a controlled power supply.

- ▶ Remove the appliance cover (see chapter "Cleaning and maintenance / Removing the appliance cover").

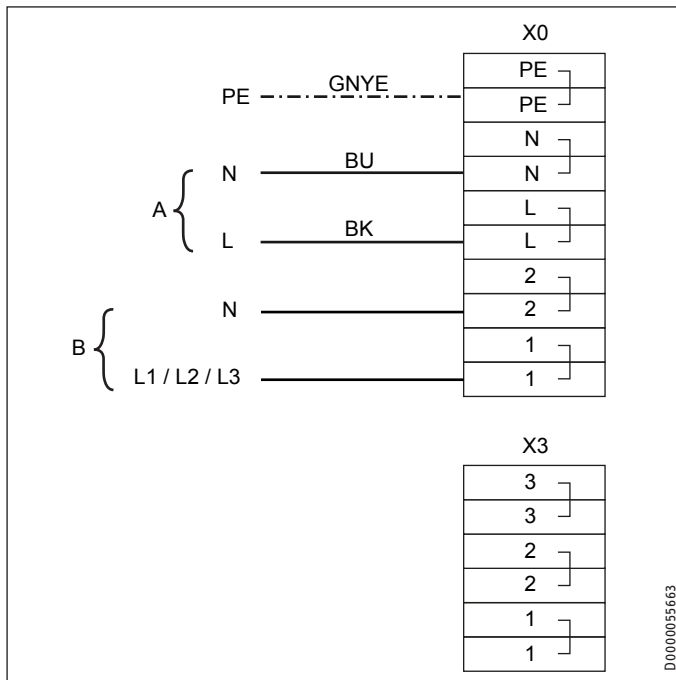


- 1 Strain relief
- 2 Terminal X0

- ▶ Prepare the electric cables in such a way that each cable terminates with a wire ferrule.
- ▶ Push the cables through one of the cable entries in the appliance casing.
- ▶ Route leads through the strain relief.
- ▶ Remove the jumper which leads from X0/N to X0/2 in the delivered condition.
- ▶ Remove the jumper which leads from X0/L to X0/1 in the delivered condition.

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- A Power supply provided by power supply utility or energy management system for switching the load (compressor)
- B Power supply for the impressed current anode and the electronics
- BK black
- BU blue
- GNYE green/yellow
- ▶ Connect the electric cables for the separate impressed current anode power supply to X0/1 and X0/2.

9.3.3 Connection with external signal transmitter

Note
This type of connection must only be carried out by a qualified electrician.

Note
The appliance has a second and higher set temperature preselected at the factory. This is activated in the event of an external switching signal. Set temperature 2 takes priority over the standard set temperature while there is an external switching signal.

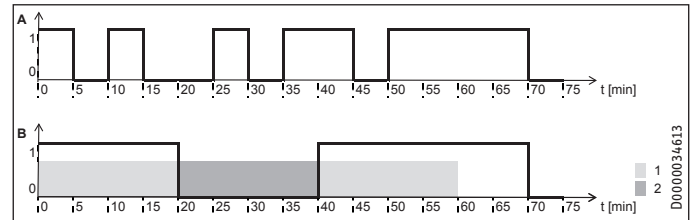
An external signal transmitter for switching a separate set DHW temperature (set temperature 2) can be connected to terminal X3/1-2. In the delivered condition, terminal X3/1-2 is not assigned. If this terminal is connected at the voltage stated in the specification (see "Permissible voltage range, external signal transducer") (L to X3/1, N to X3/2), the appliance activates set temperature 2.

Following a one-off activation (signal is present for at least 1 minute), set temperature 2 applies for at least 20 minutes. Set temperature 2 is ranked higher than set temperature 1. When the relevant set DHW temperature has been reached, the compressor switches off and remains off for a minimum idle time of 20 minutes.

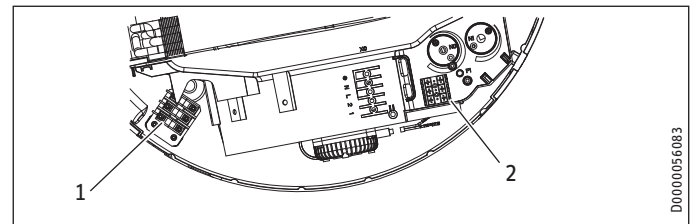
The following diagram illustrates the connections by means of a sample signal sequence of an external signal transmitter.

Example:

- Water temperature = 61 °C
- Set temperature 1 = 60 °C
- Set temperature 2 = 65 °C



- A External signal
- B Compressor
- 1 20 min. minimum runtime, set temperature 2
- 2 20 min. minimum compressor idle time
- ▶ Remove the appliance cover (see chapter "Cleaning and maintenance / Removing the appliance cover").

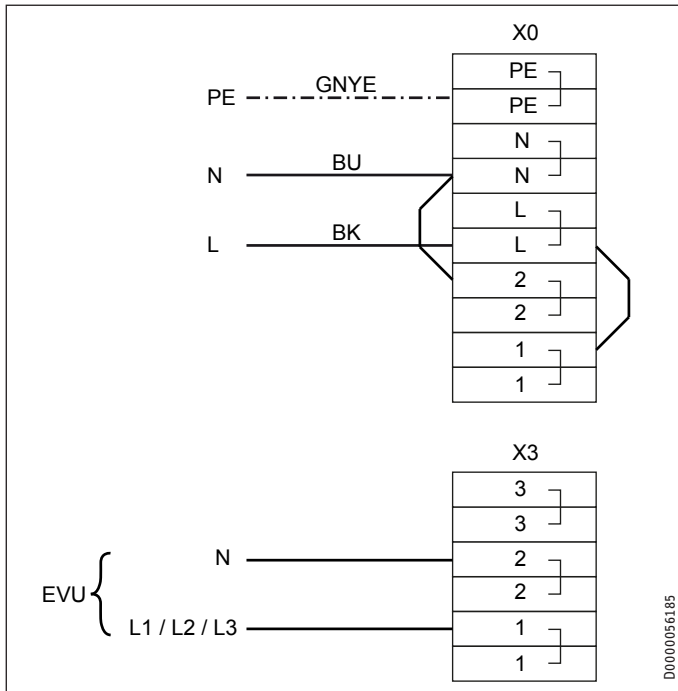


- 1 Strain relief
- 2 Terminal X3
- ▶ Prepare the electric cables in such a way that each cable terminates with a wire ferrule.
- ▶ Push the cables through one of the cable entries in the appliance casing.
- ▶ Route leads through the strain relief.
- ▶ Connect the cables to X3.

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Example 1: Power-OFF signal with its own phase



EVU power supply utility
 BK black
 BU blue
 GNYE green/yellow

Example 2: Photovoltaic signal via on-site relay and phase routed outside the appliance

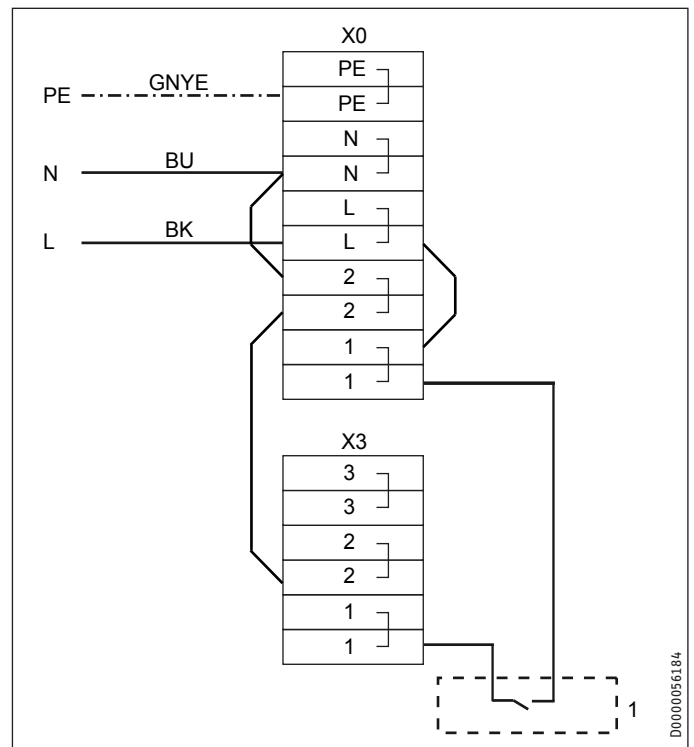


Note

The relay in the inverter must meet the following requirements:

- Potential-free relay (240 V AC / 24 V DC, 1 A) with N/O contact
- Adherence to safety regulations and standards for safety extra low voltage
- The switching output must be programmed so that the relay contact closes or opens if certain limits are exceeded or undershot (inverter output level).

If necessary, check with the inverter manufacturer whether the product meets the stated criteria.



1 Inverter (floating contact)
 BK black
 BU blue
 GNYE green/yellow

The inverter power feed is typically located at a central distribution point (e.g. in the main fuse box).

9.4 Assembling the appliance



Note

Refit the appliance cover after completing your work. See chapter "Maintenance and cleaning / Fitting the appliance cover".