

UPS, UPSD Series 200

Protection Module

Installation and operating instructions



English (GB) Installation and operating instructions

Original installation and operating instructions.

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1. General

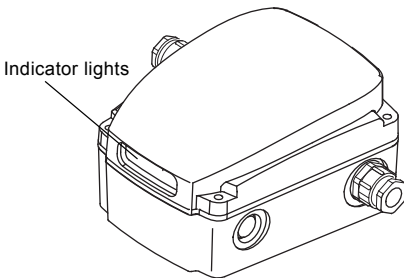
Warning

Before removing the terminal box module, these fitting instructions should be studied carefully. The installation and operation should also be in accordance with local regulations and accepted codes of good practice.



When fitted with a protection module, the pump can be connected directly to a mains switch as it will be protected by the built-in overload protection at all three speeds.

The protection module incorporates two indicator lights, see fig. 1.



TM00 9133 4596

Fig. 1

The function of the two indicator lights is shown in the table in section 2. [Indicator lights](#).

2. Indicator lights

Indicator lights		Description
Green	Red	
Off	Off	The pump has been stopped. The electricity supply has been switched off.
On	Off	The pump is operating.
On	On	Three-phase pumps only: The pump is operating, but the direction of rotation is wrong.
Off	On	The pump has been cut out by the thermal overload switch.

3. Replacement



Warning

Before removing the terminal box cover, make sure that the electricity supply has been switched off and that it cannot be accidentally switched on.

1. Switch off the electricity supply to the pump by means of the external mains switch. The green indicator light on the terminal box must be off.
2. Remove the terminal box cover.
3. Remove all wires from the terminal block.
4. Replace the existing module in the terminal box by the new one, see fig. 2.
For removal/fitting of the three screws shown, use the screwdriver supplied with the module.
5. Replace the wiring diagram in the terminal box cover by the diagram supplied with the module, see fig. 3.
6. Connect the supply wires as shown in [Fig. A](#) (at the end of these instructions).
7. Fit the terminal box cover.
8. Switch on the electricity supply. Check correct connection by means of the indicator lights, see the table in section 2. [Indicator lights](#).

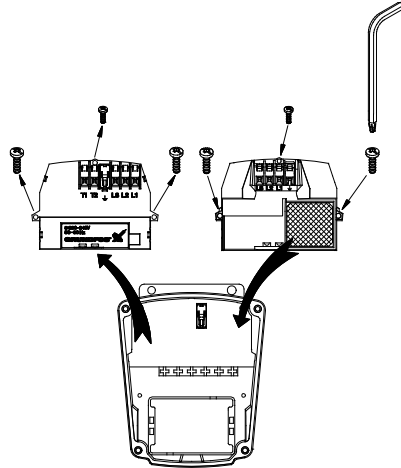


Fig. 2

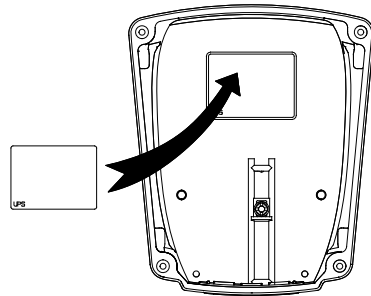


Fig. 3

TM01 4440 0399

TM01 0156 0697

4. Fault finding chart



Warning

Before removing the terminal box cover, make sure that the electricity supply has been switched off and that it cannot be accidentally switched on.

Fault	Cause	Remedy
1. The pump does not run. None of the indicator lights are on.	a) One fuse in the installation is blown.	Replace the fuse.
	b) External mains switch switched off.	Switch on the mains switch.
	c) Current-/voltage-operated earth-leakage circuit breaker has tripped out.	Repair insulation defects and cut in the circuit breaker.
2. The pump does not run. The green indicator light is on.	a) Rotor blocked, but the pump has not been cut out by the thermal overload switch.	Switch off the electricity supply and clean/repair the pump.
3. The pump does not run. The red indicator light is on. The green indicator light is off.	a) The pump has been cut out by the thermal overload switch due to high liquid temperature or blocked rotor.	Check that the liquid temperature falls within the specified range. The pump will restart automatically when it has cooled to normal temperature.
	b) The speed switch module has not been fitted.	Switch off the electricity supply by means of the external mains switch and fit the speed switch module.
4. The pump is running. The red indicator light is on. The green indicator light is on.	a) The pump is running with wrong direction of rotation (only three-phase pumps).	Switch off the electricity supply by means of the external mains switch and interchange two phases in the terminal box.
5. Noise in the system. The green indicator light is on.	a) Air in the system.	Vent the system.
	b) The pump flow is too high.	Reduce the pump performance (change to lower speed).
	c) The pressure is too high.	Reduce the pump performance (change to lower speed).
6. Noise in the pump. The green indicator light is on.	a) Air in the pump.	Vent the pump.
	b) The inlet pressure is too low.	Increase the inlet pressure and/or check the air volume in the expansion tank (if installed).
7. Insufficient heat in some places in the heating system.	a) The pump performance is too low.	Increase the pump performance (change to higher speed), if possible, or replace the pump with a pump with a higher flow.

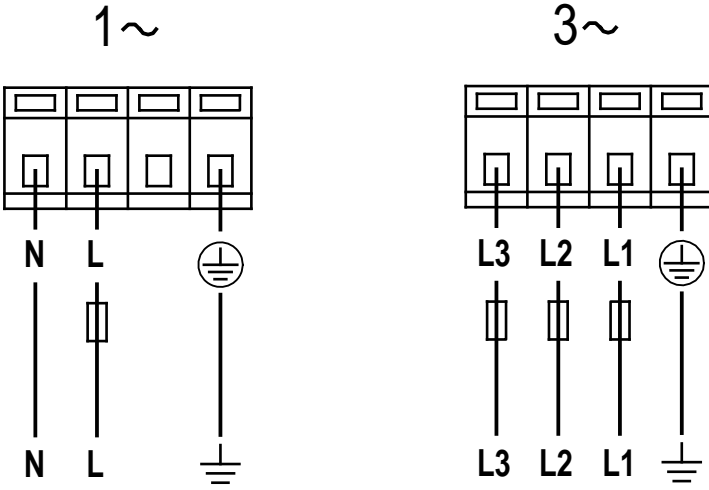
5. Disposal

This product or parts of it must be disposed of in an environmentally sound way:

1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.

Subject to alterations.

Fig. A



TM01 3402 4098

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