

6. COMMISSIONING

6.1 Electrical Connections

To improve immunity to the possible noise radiated towards other appliances it is recommended to use a separate electrical duct to supply the product.



The line voltage may change when the electropump is started. The line voltage may undergo variations depending on other devices connected to it and on the quality of the line.



Make sure that the mains voltage is the same as that on the motor data plate.



Strictly observe the wiring diagrams below:

- L-N-Earth, single-phase version
- (HOT LINES) L1 and L2

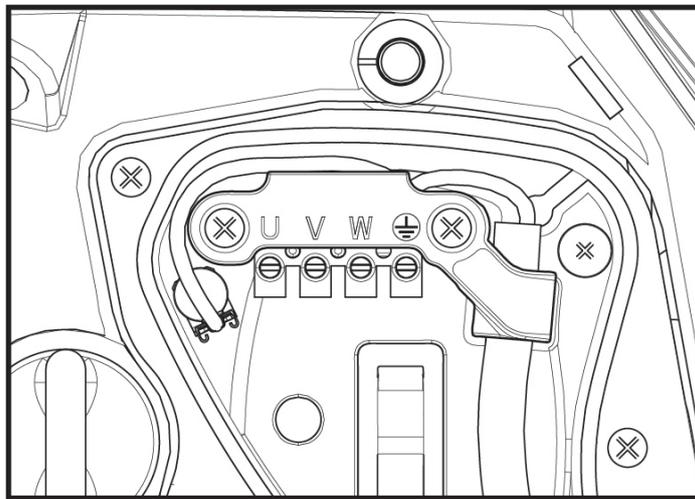


Figure 10

It is recommended to carry out installation as indicated in the manual, in compliance with the laws, directives and standards in force in the place of use and depending on the application.

The product contains an inverter inside which there are continuous voltages and currents with high-frequency components.

The differential switch for protecting the system must be correctly sized according to the characteristics indicated in Table 2 and Table 3.

	Type of possible fault currents to earth			
	Alternating	Unipolar pulsed	Direct	With high-frequency components
Inverter with single-phase power supply	✓	✓		✓

Table 2

For inverter types with three-phase power supply, it is recommended to use a differential switch protected also against sudden tripping.

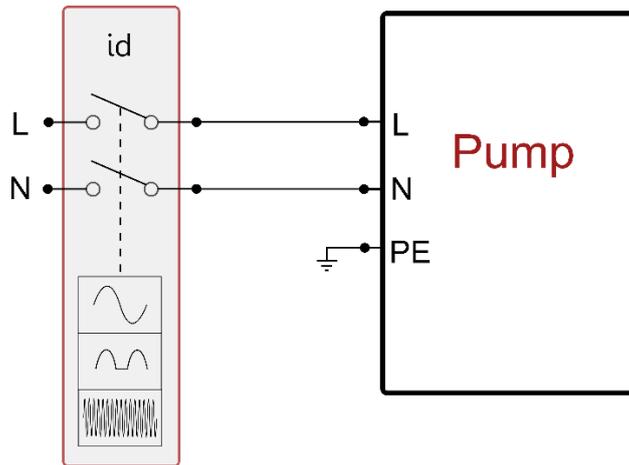


Fig 11 example of single-phase installation

The appliance must be connected to a main switch that cuts off all the power supply poles. When the switch is in off position, the distance separating each contact must respect the indications in table 3.

The cable gland, supplied with the terminal box, binds the outer diameter of the cable sheath in a range between 7 and 13mm. The mammoth terminal block can accommodate cables with a lead cross-section up to 2.5mm² (AWG14 for USA versions).

Minimum distance between the contacts of the power switch	
Minimum distance [mm]	>3

Table 3

6.2 Configuration of the Integrated Inverter

The system is configured by the manufacturer to satisfy the majority of installation cases, that is:

- operation at constant pressure;
- Set-Point (desired value of constant pressure): SP = 3.0 bar
- Reduction of pressure to restart: RP = 0.3 bar
- Anti-cycling function: Disabled

However, all these parameters can be set by the user (see the chapter Settable parameters)

The system does not work if the utility is at a height higher than the equivalent in metres of water column of the Pstart (consider 1 bar = 10 m. water column): for the default configuration, if the utility is at a height of at least 27m the system does not start.

6.3 Priming

For the first start-up, follow the steps below:

- Make the hydraulic and electrical connections (without supplying power)