UPM3100 – ELETTRICAL CONNECTIONS AND WIRING

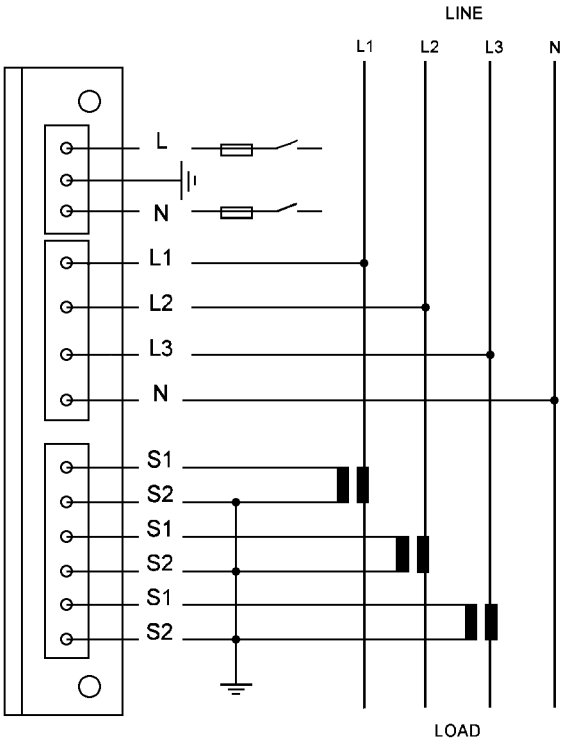
VOLTAGE AND CURRENT INPUTS

Connect the voltage inputs using the supplied 4-pole connector (European version). For the current inputs, use a 6-pole connector (European version), to be fixed by tightening the screws.
In the US version, connect the wires to the corresponding terminals.
The following schematic diagrams show some connection examples.

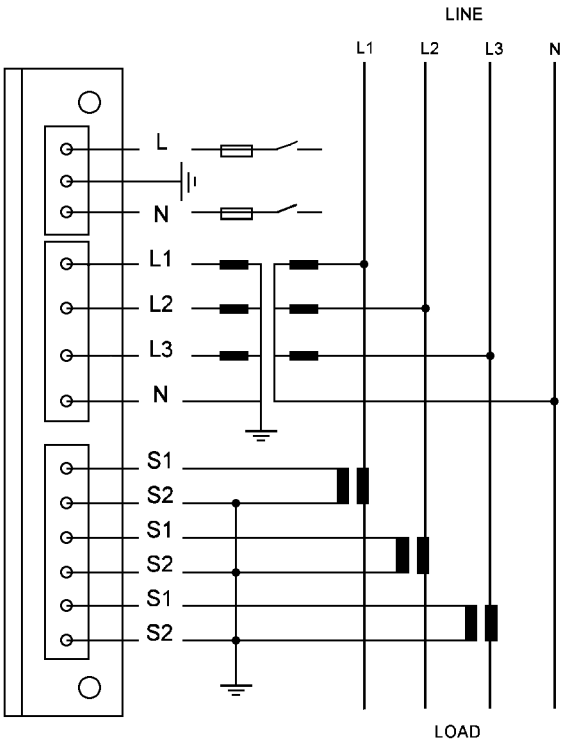
ATTENTION !
Check the following:

1 When the instrument carries out bi-directional
measurements, connections must be made paying attention to polarity, in order to obtain correct measurements.
2 The connections are made as shown in the diagrams in the next section and following the phase cycle sequence (important:: L1 of the voltage input = L1 of the current input).
3 When voltage or current transformers (VT/CT) are used, the input and output polarities must be respected.
4 The current input connector (European version) must be properly fixed, so that it does not get loose.
5 No current input is disconnected without first disconnect the load.
Should it not be possible, shortcircuit the secondary CT.

3-phase, 4-wire, 3current transformers

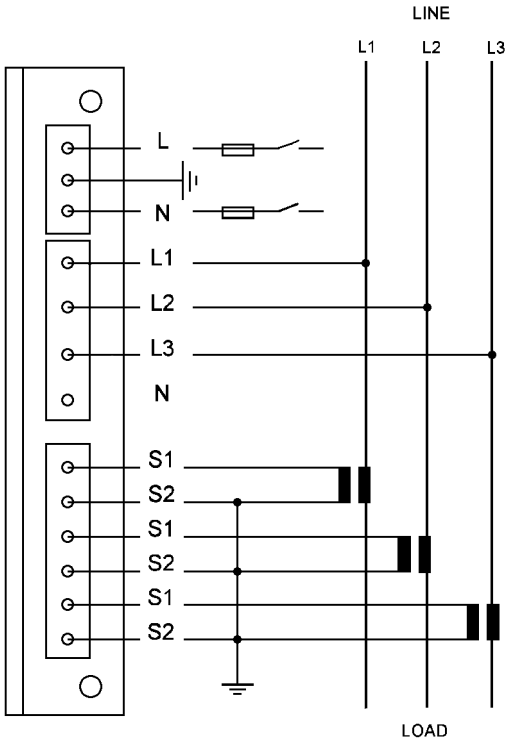


direct connection



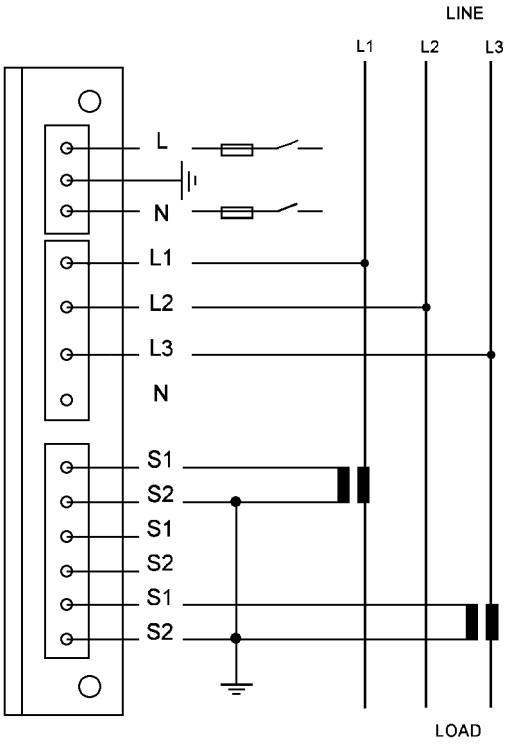
connection with voltage trasformer

3-phase, 3-wire, 3 current transformers

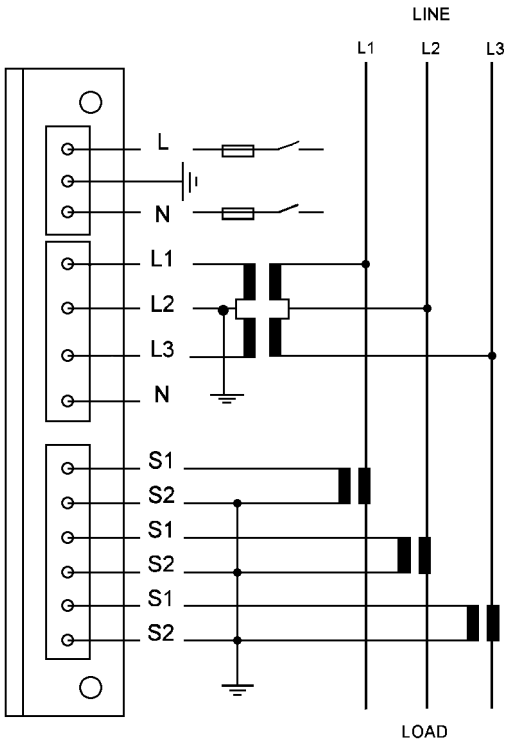


direct connection

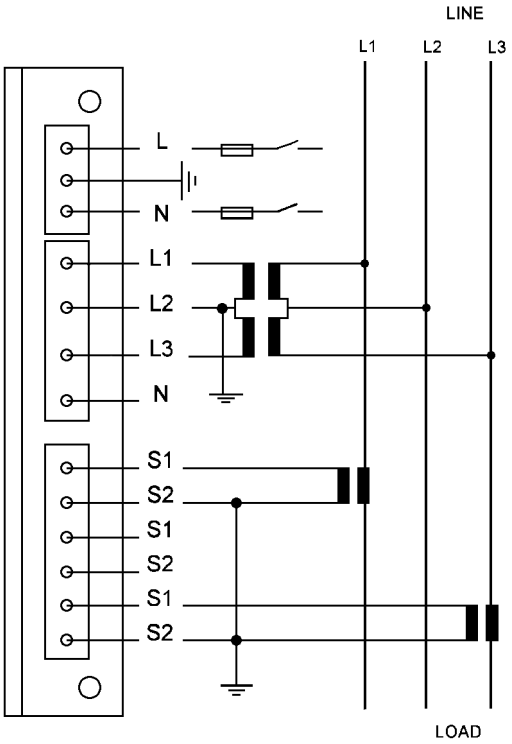
3-phase, 3-wire, 2 current transformers



direct connection



connection with voltage trasformer



connection with voltage trasformer

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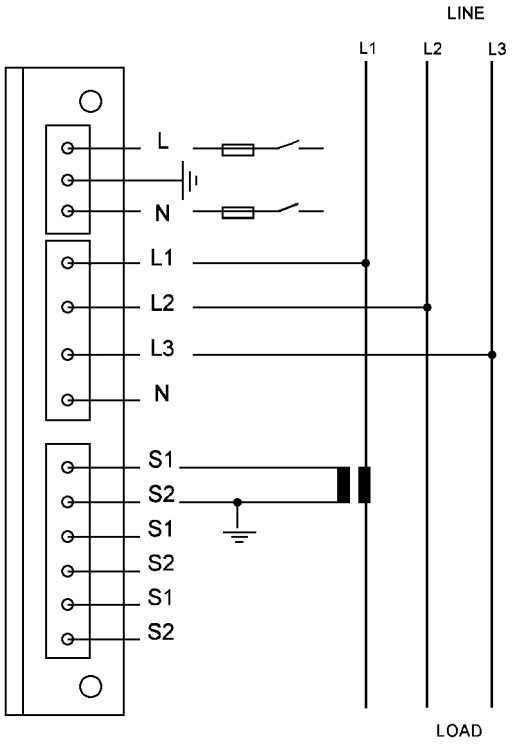
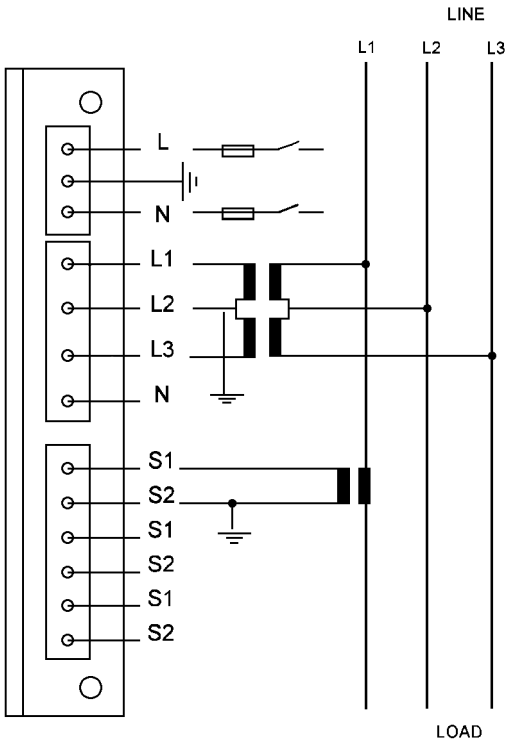
3-phase, 3-wire, 1 current transformer

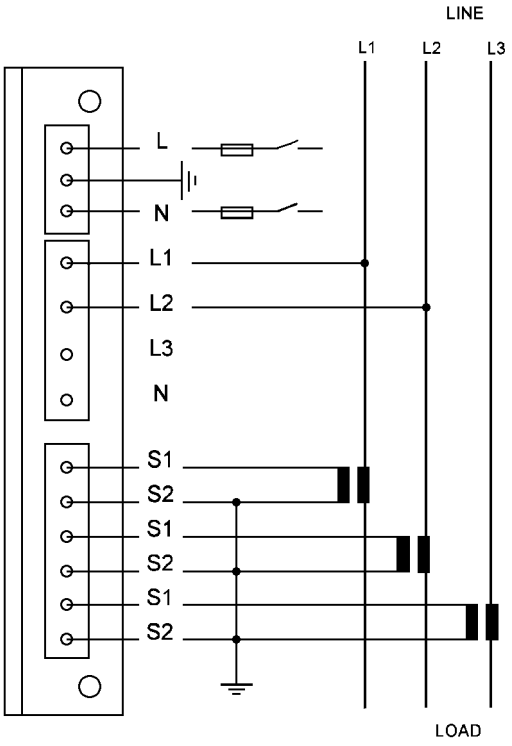


direct connection

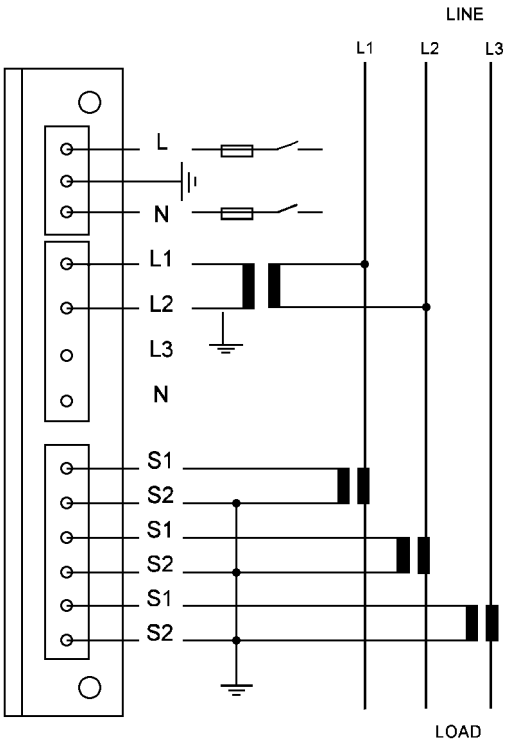


connection with voltage trasformer

3-phase, 1 Volt, 3 current transformers

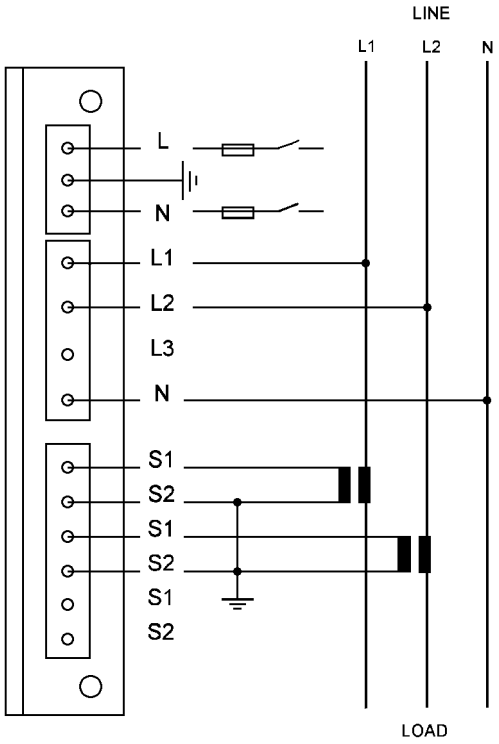


direct connection



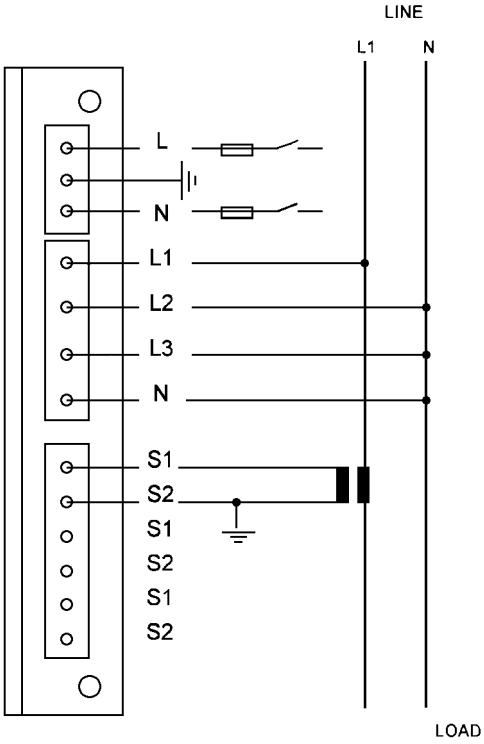
connection with voltage trasformer

Single phase - 3 wires (L1-L2)

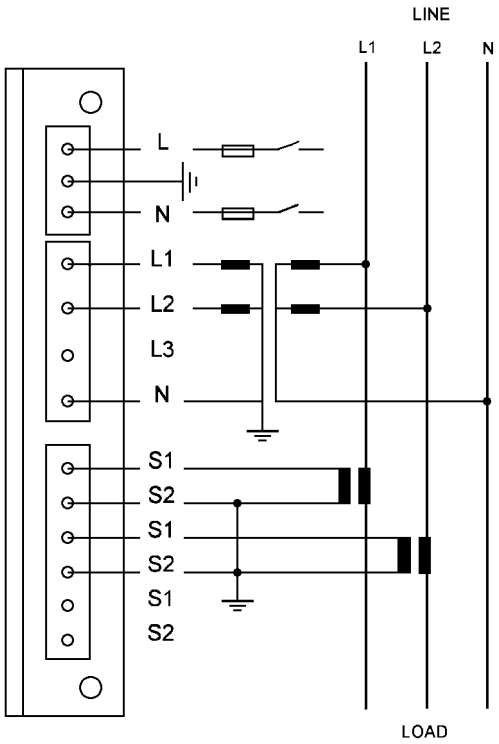


direct connection

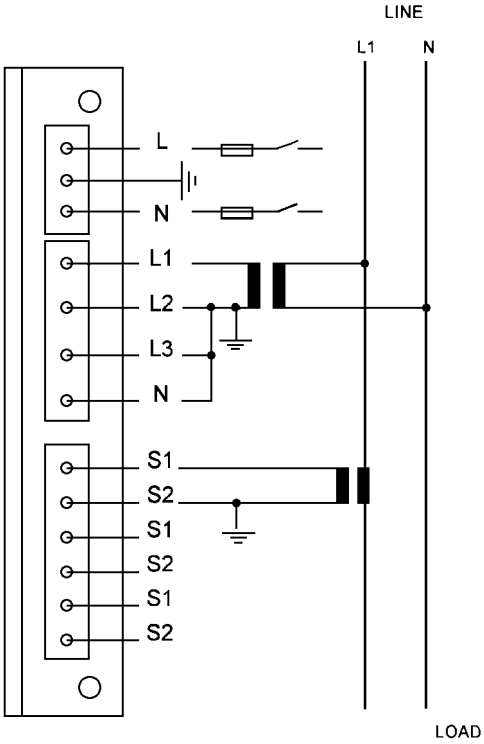
Single phase (L1)



direct connection



connection with voltage trasformer



connection with voltage trasformer

7.5.1 Voltage specifications

The standard voltage specifications are listed below:

NOTE
The label on the meter defines the real configuration

Input voltage	750 Vca max L-L
Input impedance	> 1.3 MOhm
Load	max 0.15 VA per phase @ 750 V_{AC}

7.5.2 Current specifications

The phase and polarity of the input current are an essential parameters for a proper instrument operation.
The stardard current specifications are listed below:

NOTE
The label on the meter defines the real configuration

Rated input current	1 / 5A, programmable
Input impedance	circa 0.02 Ohm
Burden	max 0.15 VA per phase @ 5A
Insulation voltage	max 150V_{RMS} between phases

NOTES:

- Extract from manual (1IAUX3100003)
- Subject to change without notice