

**CE** We hereby declare that Energy3 instruments comply with EEC directives EMC 89/336/EEC and meet the requirements concerning EMISSIONS and IMMUNITY.

### OPERATORS' SAFETY

All operators should carefully read these pages, before installing and using the instrument.

Only properly trained personnel should use this instrument.

All maintenance and repair operations to be carried out with the open instrument should be performed by Elcotronic qualified personnel, or by an operator duly authorized by Elcotronic srl.

This instrument has been manufactured and tested in compliance with IEC 348 and VDE 411 standards, and was delivered under perfect safety conditions. If the instrument looks unsafe, i.e. as a result of damages occurred during transit or caused by use, it should be put out of use and carefully inspected by authorized personnel.

Before plugging in the instrument, make sure that rated voltage and mains voltage are the same value.

When the instrument needs to be opened for maintenance and servicing or for replacing parts, it must be first disconnected from all power sources.

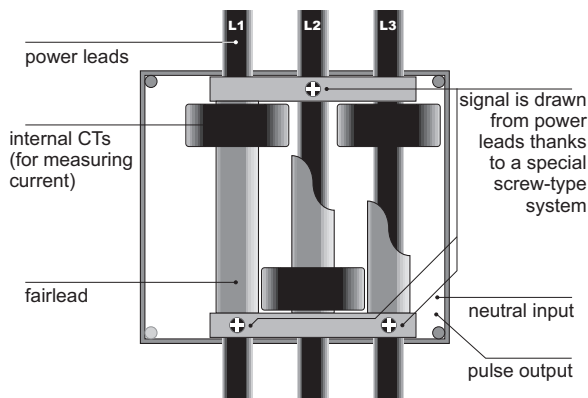
Make sure that the spare parts used are of the type required and meet the technical specifications provided.

**WARNING:** Elcotronic srl shall not be held responsible for any damages to people or things, resulting from improper use of the instrument.

### INSTALLATION

To connect the instrument proceed as follows:

- 1) Switch off the panel where the instrument shall be installed.
- 2) Place the instrument on the DIN rail
- 3) Disconnect the three-phase power cables and lead them through the holes marked with L1, L2 and L3. The CTs inside will sense the power flowing through the cable to take measurements.
- 4) Fully tighten the three inner screws that can be accessed from the holes on the instrument front. Screws will pass through the cable insulation, supplying power and signal for measuring.
- 5) Connect neutral to terminal.
- 6) Close the holes with the protective round stickers provided.

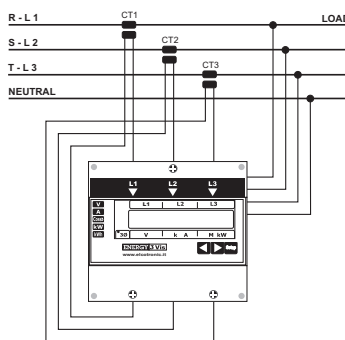


- 7) After the above operations have been completed, switch the panel on and the instrument will start working.

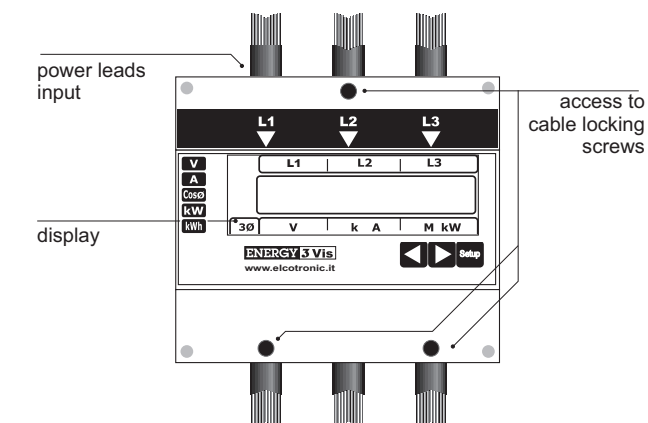
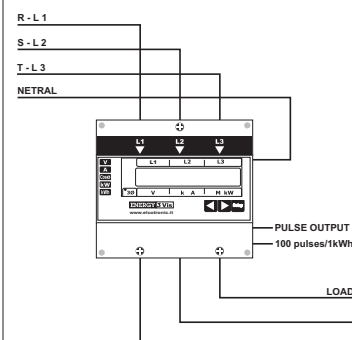
### ENERGY3 WIRING DIAGRAM for THREE-PHASE models

Wiring instructions according to the selected model **with direct KWh reading**

#### EN3 VIS – 5A for external CT/5



#### EN3 VIS – 36A with through cables EN3 VIS – 72A with through cables EN3 VIS – 140A with through cables



#### THREE-PHASE MODELS with internal CTs

- EN3 VIS - 36A direct reading up to 36A with through cable
- EN3 VIS - 72A direct reading up to 72A with through cable
- EN3 VIS - 140A direct reading up to 140A with through cable

#### THREE-PHASE MODELS with external CTs

- EN3 VIS - 5A for external CT/5

### TECHNICAL SPECIFICATIONS

Measurements in true RMS value

Accuracy	± 2%
Power Supply	directly from measurement
Inputs	380 phase/phase
Display	green LEDs
Size	6 DIN modules
Protection Rating	Instrument: IP20 Front: IP40
Temperature Range	-10°C +45°C
Relative Humidity	max 90%
Insulation	complying with applicable standards
Output	100 pulses 1kWh

	Volt RMS	Amp RMS	kW	Cosφ	kWh TOT	Pulses
<b>3-PHASE</b>	✓	✓	✓	✓	✓	✓
<b>L1</b>	✓	✓	✓	✓		
<b>L2</b>	✓	✓	✓	✓		
<b>L3</b>	✓	✓	✓	✓		

When using external CTs/5, enter ratio K (500/5 K=100) for a direct reading