CT6-FV Module for the use of the energy produced by photovoltaics through the comparison between produced and used power.
Two inputs for TA x/5 and 6 outputs for static relay.

Device suitable to control heating resistive loads via static relays for the use of all the energy produced by photovoltaics. Inputs for TA of measurement of produced and used current. Method of comparison and priority activation of outputs so as to be able to guarantee the use of the current produced.

OPERATING METHOD:

The module must be connected via current transducers: the TA1 must analyse the current produced by photovoltaics (current which goes to the grid or appliance), the TA2 must analyse only the current drawn by the appliance. With the outputs it is possible to activate 6 static relays with which to deliver energy to resistive loads.
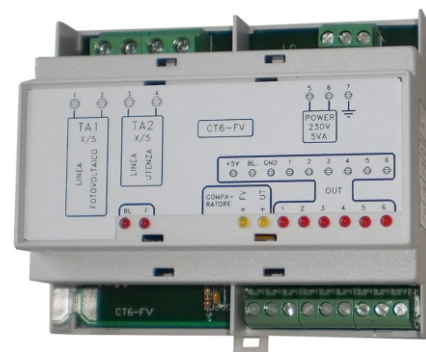
DIMENSIONS L.105 P.70 H.90 DIN rail

CONTROL METHOD:

1) On power on, the device begins to check the two currents (produced and used). If it finds an excess of produced energy, it activates the first output (OUT 1). This procedure is repeated every 60 seconds, activating if necessary also all the other available outputs, until an appliance current value greater than the produced one is found.
Now it removes the last exit, and retries every 60 seconds. The measurement of the currents is always present. In the event of a sudden appliance draw, all the outputs engaged will be removed one at a time with an interval of 30 seconds up to ensure that the produced current exceeds the used current.
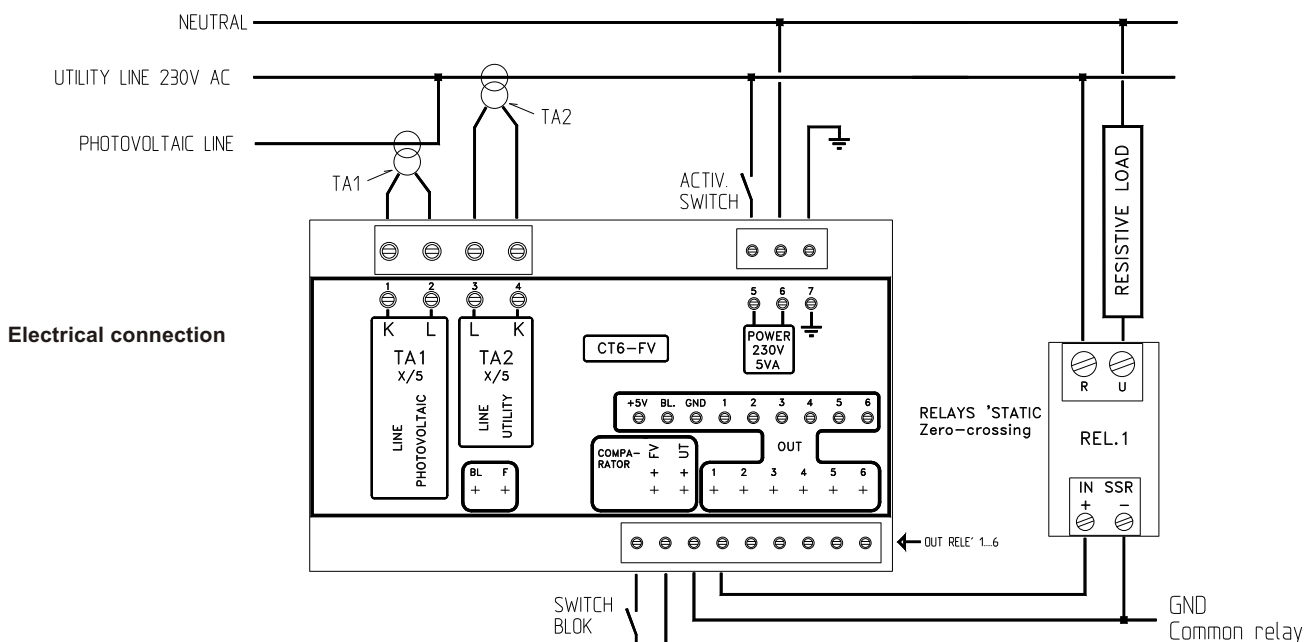
2) Via the external lock contact it is possible to stop the comparison of the currents. All six available outputs will be activated to allow the use of resistances by drawing energy from the grid.

Operation:

After having powered the control unit, the "F" led turns on, you will see the led "+ FV" if the measurements detect a higher current of photovoltaics, or the led "+UT" turns on if the consumption of the produced energy is higher, they remain off in case of absence of current in both lines.
If the lock contact activates, the led "BL" turns on and in sequence all the OUT1 ... 6.

Electrical connection

Technical specifications:
- Power supply 240V AC 5VA.
- No. 2 inputs for T.A. X/5.
- No. 6 logical outputs for static relay 15V DC 20mA.
- No. 1 activity lock input.
- Load engagement time with cycles of 60 sec.
- Load deactivation time with cycles of 30 sec.

NOTE:
**THE CONNECTED AMPEROMETRIC TRANSFORMERS MUST HAVE THE SAME VALUE AND CLOSER TO THE MAXIMUM VALUE OF USE. CONNECT THE TRANSFORMERS ACCORDING TO THE ELECTRICAL DIAGRAM.
IN ADDITION TO THE USE A CABLE CONNECTION WITH SEZ. 2.5mm2 FOR LENGTH OF MASSIMAN 4 MT.**