

REGULATORS ERN 11005 and ERN 11007

INSTALLATION NOTES FOR THE ELECTRICIAN

Physical Installation

The regulator is a box to be installed in a distribution board panel.

The instrument's position must be fixed with locks.

It is mandatory to assure at least natural air flow inside the distribution board cabinet, and near the instrument. Please get sure that there is no heating source below the instrument, in order to get correct temperature data.

Connection

The regulator is provided with screw-on connectors placed on the rear side. A label is there to help numbering. Maximum wire cross section is 2.5 square millimeters.

Please, refer to terminal numbers on the Rear Side Label and the Wiring Example below. Terminals from number 5 to number 11 are reserved for contactors

(5 contactors max for ERN 11005, 7 contactors max for ERN 11007).

Every contactor has three couples of phase connectors, each couple for one phase, and a fourth one, smaller, where one side is for the wire coming from the regulator, the other side is for the wire going to the N phase (zero Volt)

The **terminal number 12** is reserved to the alarm, its wiring goes to the N phase, as you can see in the wiring example.

Power Supply and Protection

Supply voltage is required in the range of the technical specification data.

The supply voltage is to be connected to terminals number 4 (*L1-230Volt*) and number 3 (*N-zero Volt*) and externally protected, that is by an external switch between the controller terminals and the supply side. This switch is to be located very near to the instrument and easily reachable by the operator.

Moreover, it has to be clearly marked as "disconnecting device" (EN 61010-1 standard (section 6.12.2.1).

The power supply terminal number 4 (*L1*) is internally connected to the common pole of output relays.

It is necessary to work out the power supply protection and the output contactor's power as well. Do not forget..

Current Measurement

Current transformer (CT) outputs connect to terminals number 1 (*k*) and number 2 (*l*): terminal 1 is *I* and terminal 2 is *k*. A current transformer of nominal output current 5 or 1 A can be used. In ERN 11005 and ERN 11007 models, the connector features a screw lock to prevent accidental pull-out.

Rear Side Label



Wiring Example

