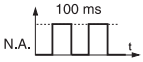
30A DIRECT INSERTION

digital display

4 DIN MODULES **1RCETM304 / 1RCETM304D** (digital display)
6 DIN MODULES **1RCETM430**

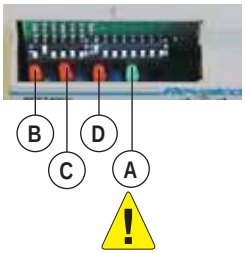
- **AMPEROMETRIC / VOLTMETRIC SELFCONSUMPTION** 1VA / 3VA for each phase
- **PRECISION** Class A (for model 1RCETM304) - Class 2 (for model 1RCETM430)
- **TEMPERATURE** functioning -5°C ÷ +50°C / storage -25°C ÷ +70°C
- **DISPLAY** 999999,9 kWh (6 entires + 1 decimals)
- **SIGNALLING LIGHT** flashing **red** led = active consumption (the flashing is proportional to the consumption)
  Each flashing is equal to 1 Wh
  pulse **red** led = connection error, it is necessary to verify the connections of the measuring circuit
- **ENERGY READING** For all values of cosφ from 0.5 to 1
- **NOMINAL VOLTAGE** U_n 3x230V/400V ± 10% self powered - 50 ÷ 60 Hz
- **MAXIMUM CURRENT** I_{max} 32A
- **MINIMUM START CURRENT** I_{st} 0,32mA
- **MINIMUM FUNCTIONING CURRENT** I_{min} 32mA
- **TRANSITION CURRENT** I_{tr} 0,64A
- **REFERENCE CURRENT** I_{ref} 6,4A
- **PROGRAMMABLE OUTPUT IMPULSES**



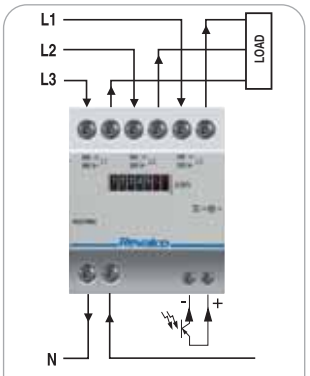
x1 = 1 impulse every 0,1 kWh - resolution 0,1 kWh
x10 = 1 impulse every 1 kWh - resolution 1 kWh
x100 = 1 impulse every 10 kWh - resolution 10 kWh
relay normally open, 0.5A / 100V - impulse duration 100 ms

- **DIMENSIONS / WEIGHT kg** 6 DIN modules / 0,40

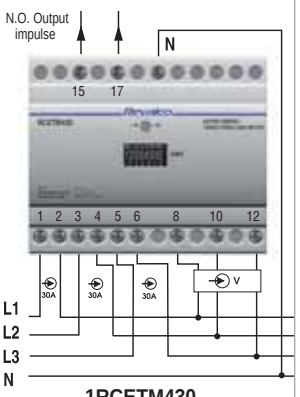
CONNECTIONS AND AUTOMATIC TEST: firstly, choose the relationship of the CT and the output impulse by selecting the appropriate minidip; subsequently, connect current and voltage circuits as shown in the layout.
Power and wait for at least 3 seconds, so that a current corresponding to the nominal one, passes through the circuit.
At this point, verify that the red frontal led flashes to confirm the correct connection. In this case, by opening the upper small panel it can be noted that the green led (A) is switched on and the red led (B corresponding to phase L1, C corresponding to phase L2 and D corresponding to phase L3) are switched off. Whereas, if the frontal red led throbs (the brightness gradually increases and decreases), it means there is an anomaly in the connection. In this case, by opening the small panel placed near the upper part of the instrument, it will be noted that the green led (A) is switched off and one, two or all three red led (B, C and D) corresponding to the phase incorrectly connected, are switched on. In this case verify that the connections are correct.
The following anomalies may have verified:
- the current in an amperometric measuring circuit circulates in reverse mode
- a connection in one or more phases has been inverted (Example: L1 instead of L3 etc.)
- a connection in the voltmetric measuring circuit of the phase corresponding to the red led switched on is missing
- the connection of the voltmetric circuit has been inverted (Example: L1 in place of L3 etc.)



To be powered, the meter requires the presence of neutral and at least one of the three phases.



1RCETM304



1RCETM430

For the good functioning of the meter DO NOT move the minidip from the position established by the factory (dip n°8 in ON position). Eventually the only dip to be moved are n°1 and n°2 for selecting the output impulse.

63A DIRECT INSERTION

digital display

4 DIN MODULES **1RCETM63 / 1RCETM63D** (digital display)
4 DIN MODULES FOR UTF CERTIFICATION **1RCETM63U**

- direct reading of energy consumption; it is not necessary to calculate any coefficient multiplication
- **AMPEROMETRIC / VOLTMETRIC SELFCONSUMPTION** 1VA / 3VA for each phase
- **PRECISION** Class A
- **TEMPERATURE** functioning -5°C ÷ +50°C / storage -25°C ÷ +70°C
- **DISPLAY** 999999,9 kWh (6 entires + 1 decimals)
  memory preservation even in the presence of a fault
- **SIGNALLING LIGHT** flashing **red** led = active consumption
  (the flashing is proportional to the consumption)
  Each impulse is equal to 100W to which a trigger of the numberer corresponds (+0.1kWh)
  yellow led OFF = correct connection
  yellow led ON = incorrect connection
- **ENERGY READING** For all values of cosφ from 0.5 to 1
- **NOMINAL VOLTAGE** U_n 3x230V/400V ± 10% self powered - 50 ÷ 60 Hz
- **MAXIMUM CURRENT** I_{max} 63A
- **MINIMUM START CURRENT** I_{st} 0,63mA
- **MINIMUM FUNCTIONING CURRENT** I_{min} 63mA
- **TRANSITION CURRENT** I_{tr} 1,26A
- **REFERENCE CURRENT** I_{ref} 12,6A
- **ELECTRIC CABLE** 20-6 AWG 16 mm²
- **OUTPUT IMPULSES** 10 impulses every kWh
  Open-Collector System (SO according to DIN43864), max 60VCC/30mA CC - Impulse duration >80 ms
- **DIMENSIONS / WEIGHT kg** 4 DIN modules / 0,70