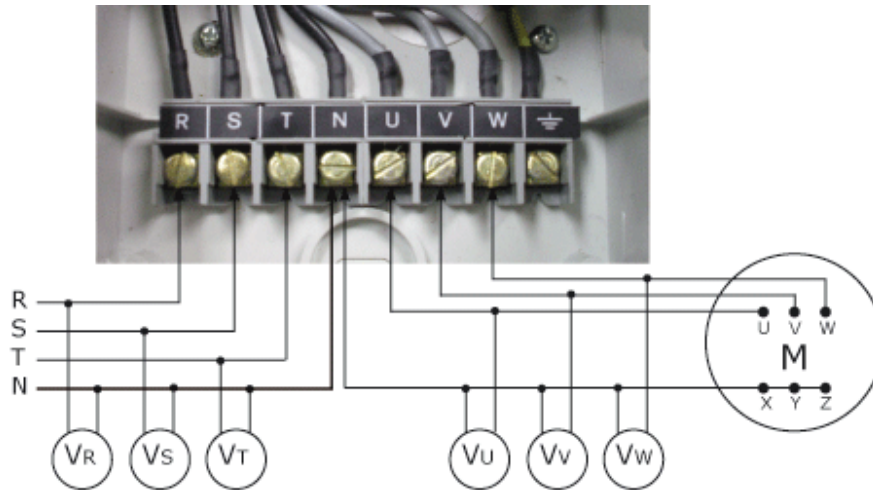


Measurement regulator

RVT-phase 6 - 16

at starting



1) Measure input voltage **R-N (S-N / T-N)**

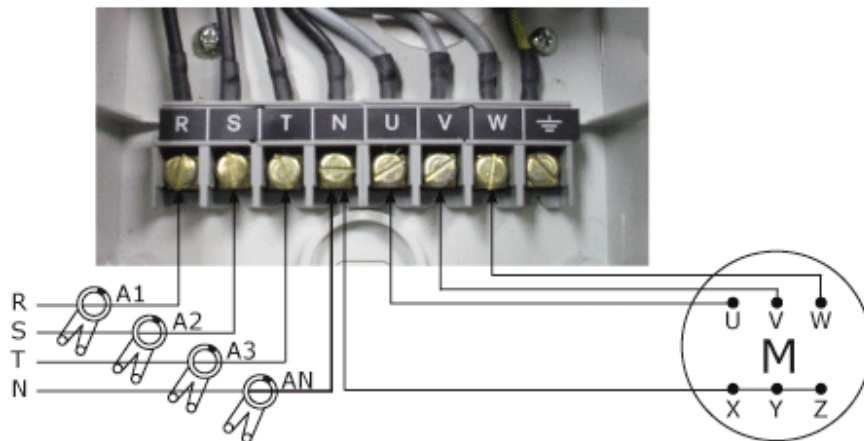
2) Measure output voltages (at max speed) **U-N (V-N / W-N)**

The output voltage of about 3V is less than the input voltage

3) Measure the output voltage (min speed) **U-N (V-N / W-N)**

The output voltage will be about 75 - 100V.

Important to check that between a measure and the other the difference is contained within 20%.



Current measurement: (see motor plate)

1) Max speed $A1 = A2 = A3 - AN$ - (AN small %)

Example $A1 = 5.1A - A2 = 4.8A - A3 = 5.1A - AN = 0.2A$

2) Min speed $A1 = 5.8A - A2 = 4.2A - A3 = 5A - AN = 6.9A$

At minimum speed the neutral current may be greater than the single phase current as the sum

of those is not 0. The imbalance of the currents may depend on input and output voltage or on unbalanced current on the motor already at full speed.

N.B. If adjustment in the neutral current is not measured, it means that: the same is not connected to the star center of the motor, or is not connected to the mains.

Possible fans (aspirators) anomalies Three phase regulated by RVT 6-16		
Problem	Cause	Solution
Stopped fan	Absent input/output voltage	Check input power supply. Insert regulator switch.
Fan very noisy setting	Neutral disconnected to the motor star center	Connect the neutral to the star center of the motor and the power line
Noisy fan in a point of regulation	Plant in mechanical resonance	Move the working point of plant
Motor fan with high temperature	Motor with too low ventilation or ventilation with air at high temperature	Additional ventilation to the motor. Protect the motor from the flow at high temperature.
Regulator protection operation	Motor current greater than switch	Adjust the current + 30% of the nominal one