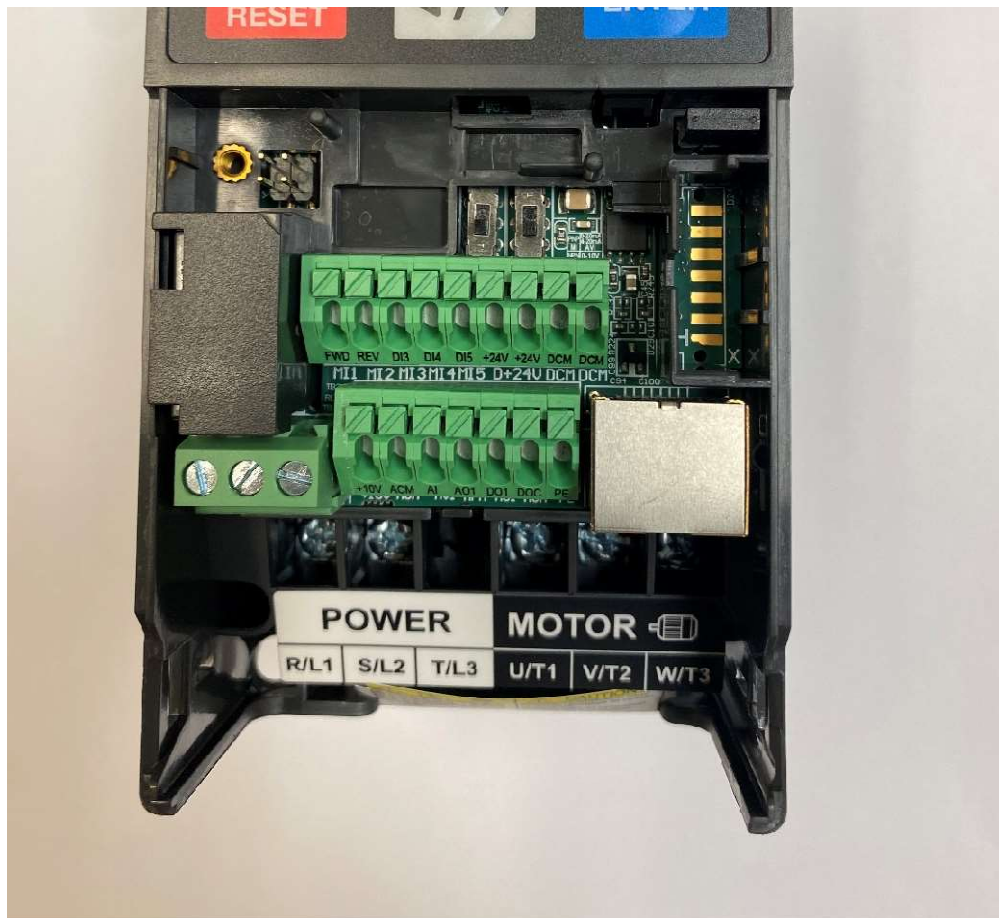Your Extreme (6000 rpm) motor is a 230V 3 phase motor. The included GS10 controller converts the single-phase power from your outlet to run the 230V 3 phase motor.

Wiring of the Extreme centrifuge is done as follows:

RL1, SL2, and Ground screw on the GS10 controller connect to your standard single phase power wiring. You can purchase a cord that has a plug for a standard outlet on one side and loose wires on the other end for connecting to the GS10. Use an old extension cord if you'd like. 14 awg wire is recommended. The order of the L1 and L2 wires does not matter, the grounds need to be matched, however. Reference user manual.

U/T1, V/T2, W/T3 on the bottom GS10 controller connect to the orange, blue, and white wires on the motor (order does not matter). The 4th wire will be from the ground on the controller to the green screw on the motor. You can use something called "$^{14}/_3$ with ground" wire rolls from the hardware store. Wiring should be done according to local code. Use 14 awg wire.

Programing of the GS10

The GS10 drive needs to be programmed to correctly run the motor @ 6000RPM. You will need to use the parameters below. Follow the instructions in the Quick-Start Guide for making changes to the settings.   We have an **old** video showing the process on a **similar** drive here: www.vimeo.com/8093365

Settings:

Parameter 00.04   7   (This enables the display of the calculated RPM)

Parameter 00.20   7   (This enables use of the potentiometer dial)

Parameter 01.00   104   (This is the maximum frequency of the motor, required for 6,000rpm)

Parameter 05.03   3450   (This sets the Base RPM of the motor)

Parameter 05.01   1.4   (This sets the output to 1.4amps as shown on the motor)

Parameter 05.02   .25   (This is the rated output of the motor in kw)

Parameter 05.04   2   (Setting for a 2 pole motor)

The tech support number for the GS10 is 770-844-4200, they can help with error codes and possible issues.