MOTOR SETTINGS

Note: These settings are for a 1.5kw 24,000rpm spindle. 110V

PD004 - 400Hz (Motor nameplate frequency)
PD005 - 400Hz (Max operating frequency)
PD141 - 110V (Rated Motor Voltage)
PD142 - 7.0A (Rated Motor Current)

PD143 – 2 (2 pole motor)

PD144 – 3000 (The rpm of the motor at 50Hz)

        e.g. Max RPM/Max frequency = Rpm/Hz; 24000rpm/400Hz = 60rpm/Hz, 60rpm/Hz*50Hz = 3000rpm

DRIVE SETTINGS

PD173 - 110V (Main voltage)
PD174 - 13.0A (this is the spec for max amperage it will pull from the wall)
PD176 - 1 (60Hz)

EXTERNAL CONTROL MODE

Definition: using the RS-485 protocol for drive communication.

PD001 – 2 (External communication)
PD002 – 2 (External Communication)

PD163 – 1 (Identification number)
PD164 – 2 (Communication Baud Rate – 19200 b/s)
PD165 – 3 (Communication Data Method – 8N1 for RTU)

MANUAL MODE

Definition: This operation uses the Start/Stop and rotary dial to power on/off and control speed.

PD001 – 0 (Operator Communication)
PD002 – 1 (Operator Communication using the rotary dial)

PD003 - 0 (This sets the default starting Hz)

FINAL SETUP

Once done set: PD013 = 01 and this locks the settings.

    -    Setting PD013 = 08 is factory reset