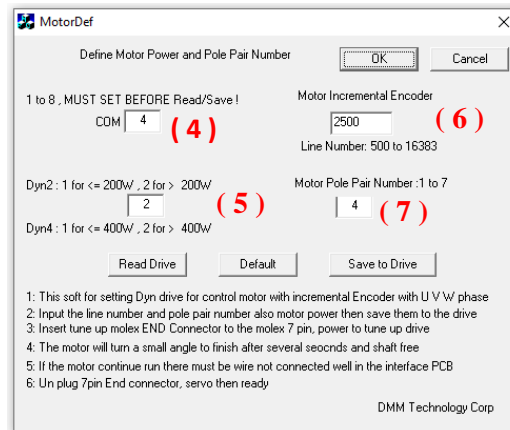


**ENCV Encoder Converter
Setup Guide
May 5, 2021 - Version 1.0 [Draft]**

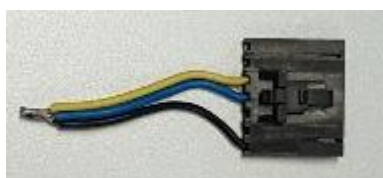
1. Download ENCV encoder converter setup program from this link:
<https://app.box.com/s/mt15yoxx2k3ycrau65961xp33tq0yuag7>
2. Power up DYN2 or DYN4 servo drive without motor connected. Connect servo drive to PC using USB tuning cable CA-MTUSB-FR1.
3. Open ENCV program



4. Set COM port number as used by USB tuning cable.
5. Set drive output capacity. This is usually already set from factory so don't change unless advised by DMM representative. Usually, 200V/400W or smaller motor is set to "1" here. Any motor bigger than 200V/400W should set this to "2".
6. Set motor incremental encoder resolution in Pulse/rev units. Ex. If encoder is 2500 pulse/line resolution, input 2500 here. Ex. If encoder is 4000count resolution, input 1000 here. Units: 4 x Pulse = Count.
7. Set motor pole pair number. If motor is 6 pole, set "3" here. If motor pole pair is unknown, perform following test:

Disconnect the 3 phase motor power wire UVW from the servo drive. Connect all 3 UVV together with hand. Then rotate the motor 1 revolution. As you rotate the motor with hand, there will feel "bumps" in the movement. The number of "bumps" is the number of poles the motor has.

8. Click Save to Drive to save setting in drive. Click Default to refresh parameter on-screen. Press Read Drive to read parameter back out and confirm it's correct.
9. Power down servo drive then connect motor and encoder converter to drive.
10. Connect encoder tuning pigtail plug (Part# SPCU-ET05PCAL) into drive JP2:



11. Power ON servo drive, drive will rotate motor slightly to calibrate encoder.
12. Power down servo drive and remove encoder tuning pigtail plug
13. Power ON servo drive for normal operation.