



**MagneTek - 6 Step Software**  
**30 Hp units and Above**  
Part Number: GPD505V-XXXXDB

The below information is to be used with the MagneTek GPD505 units supplied with the 6 step software. This software allows the user to increase the number of selectable preset speeds.

Set n001 = 3                      Set for 2 Wire Control  
Set n002 = 1                      External Speed Ref. / Run Ref. from Keypad  
Set n036 = 0                      Sets Terminal S2 to Reverse Run  
Set n037 = 14                     Sets Terminal S3 to Alternate Acceleration Ramp

\*\* To use alternate acceleration ramp during speed references (4,5,6) jumper terminal S4 to S3 and set n036 = 14.

n018 = acc(1)                      n020 = acc(2)  
n019 = dec(1)                      n021 = dec(2)  
Set n038 = 10                      Sets Terminal S4 for Multi-function Speed Ref.  
Set n039 = 11                      Sets Terminal S5 for Multi-function Speed Ref.  
Set n040 = 12                      Sets Terminal S6 for Multi-function Speed Ref.

Speed Ref	Terminal	Terminal	Terminal	Parameter
#	S4	S5	S6	
1	0	0	0	n024
2	0	1	0	n026
3	0	0	1	n028
4	1	0	0	n025
5	1	1	0	n027
6	1	-	1	n029

1 = Closed  
0 = Open

Notes

- (1) **Very Important to MAKE Speed Ref# 4 before break Speed Ref #3. Otherwise acceleration will start from Speed Ref #1.**
- (2) If this features are used with UP/DOWN REF, Modbus Self Test or PID "OPE3" will occur.
- (3) Can not set Speed Ref. (1) below Minimum Speed level.



### Connecting the Dynamic Braking Unit

In special applications a dynamic brake unit is required on a GPD505 that does not have the bus terminals available. In these cases an additional terminal strip is added at the factory. This terminal strip is located on the lower left hand side of the drive, right next to the input power terminals of the drive. The terminal strip is labeled:

**- bus +**

Connect the dynamic braking unit to this terminal strip as you would the +(B1) and -(B0) terminals on the drive. Follow the suggested connections for dynamic braking units, resistors, and protection circuitry. If you have any questions please consult the factory.