

## Brushless Motor Application Note # 104 Rev 2

### Motor

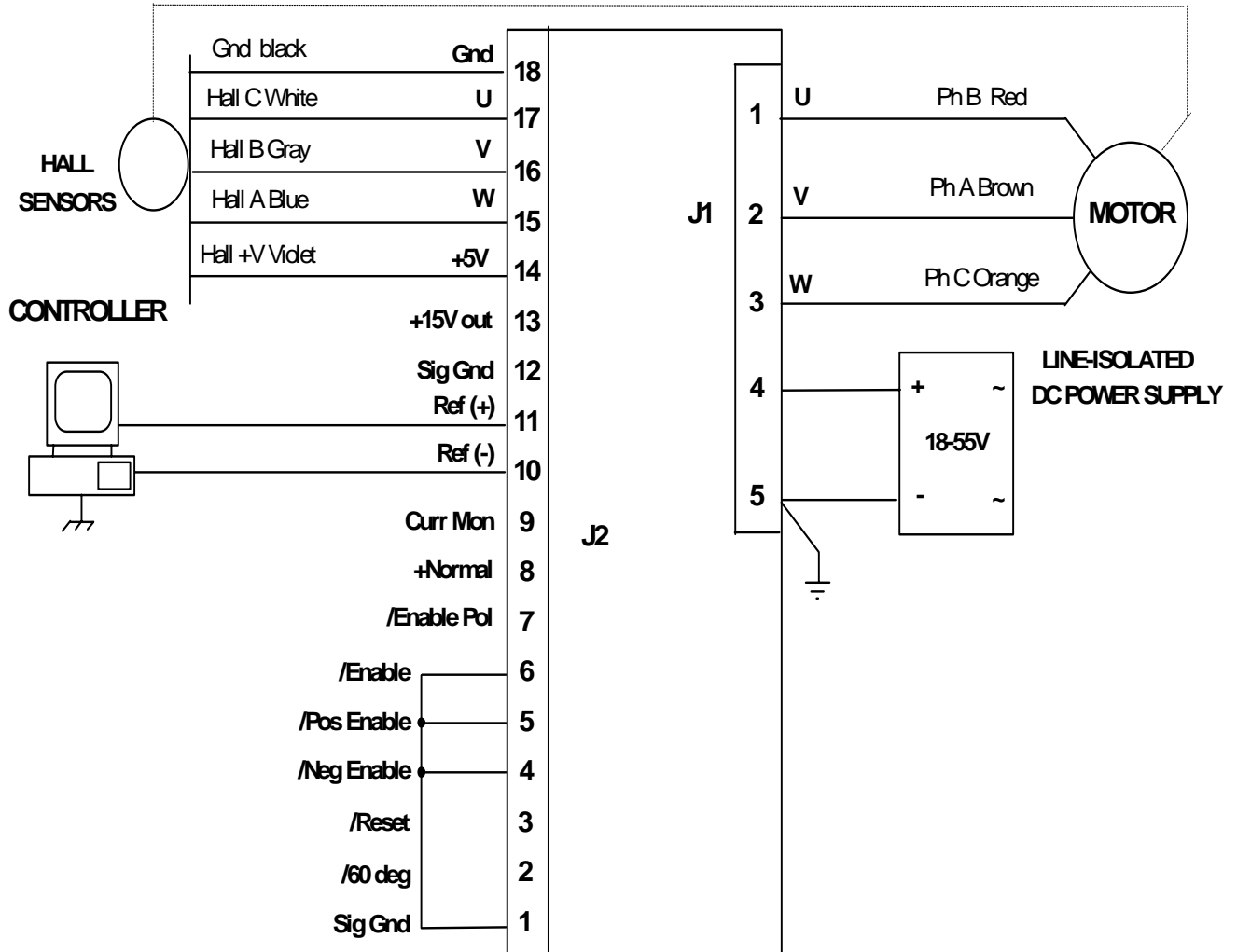
Pittman 5112B887

$L_a = 0.12 \text{ mH}$ ,  $R_a = 0.5 \Omega$ ,  $K_t = 6.5 \text{ oz-in/A}$ ,  $K_e = 4.9 \text{ V/Krpm}$

$I_c = 5 \text{ A}$ , # of Poles = 4,  $T_c = 33.5 \text{ oz-in}$

**Amplifier** 503 [ Current mode ]

### Wiring



### Remarks

Header components: All others than listed below are standard

RH1 = 12.1 k $\Omega$  Current Loop Bandwidth at 50 VDC, -3 dB equals 2.2 kHz +/-20%

CH2 = 680 pF With RH1 load compensation set for 0.12 mH

NOTE: Maximum speed at 50 VDC equals 9.6 Krpm.