Figure 13: EPC9146 main schematic
15 Vmin. to 80 Vmax.

12 V 150 mA max.

UVLO Settings:
- 14 V on, 1.64 V hysteresis

fs: 402 kHz

VCC

Power indicator

Figure 14: EPC9146 12 V housekeeping power supply schematic
6 Vmin. to 28 Vmax.

Figure 15: EPC9146 5 V housekeeping power supply schematic
Figure 16: EPC9146 3.3 V housekeeping power supply schematic

Figure 17: EPC9146 Over-current detect schematic
Figure 18: EPC2152 Phase-Leg schematic
Figure 19: Shaft-encoder interface schematic

Figure 20: EPC9146 Filter, phase current, and phase voltage sense schematic
Figure 21: Temperature sensor schematic

150°C scale to 3.3V
-55°C scale to 1.7V
25°C scale to 2.3V

Figure 22: Current sense amplifier schematic

Gain 50 V/V
Offset Voltage = 1.65V
Heatsink Kit

Figure 23: Heatsink kit schematic