External 5 V    External 3.3 V    Extra Functions

CN10 equivalent - on top

Controller connection - direct

CN7 equivalent - on bottom

Controller connection - ribbon cable

Nucleo Board Connection

3.3 V power option
3.3 V supply from motor drive board (Default)
3.3 V external supply (optional)

Speed potentiometer

Sensor function
EncA/8 = shaft encoder (Default)
Vsns1/2/3 = phase voltage

3V3

Motor Drive Interface Connector

Board Standoffs

Figure 23: EPC9147C Main schematic