

# MCE Wizard Settings:

System	Motor 1
<b>System Communication</b>	
17 - UART Node Address	<input type="text" value="1"/>
18 - User UART Function Definition	<input type="text" value="UART1"/>
20 - User UART Baud Rate	<input type="text" value="57600"/> bps
21 - User UART Tx Delay Time	<input type="text" value="0"/> ms
<b>System Options</b>	
23 - Safty Function Tests Enable/Disable	<input type="text" value="Disable"/>
24 - Controller Supply Voltage	<input type="text" value="5.0"/> V
25 - Temperature-based CPU clock compensation	<input type="text" value="Enable"/>
26 - Control Input measurement	<input type="text" value="Disable"/>
30 - Multiple Motor Parameter Set Support	<input type="text" value="MotorID-Disabled"/>
31 - Parameter Set Number	<input type="text" value="0"/>
<b>Motor 1 Startup Setting</b>	
11 - Open Loop Speed Ramp Rate (0 = Disable Open Loop Start-up)	<input type="text" value="100"/> RPM/sec
12 - Parking Time (0= Disable Parking)	<input type="text" value="0"/> sec
13 - Low Speed Threshold	<input type="text" value="100"/> RPM
14 - Low Speed Current Limit	<input type="text" value="50"/> %
<b>Motor 1 Motor Starting</b>	
15 - Initial Angle Sensing	<input type="text" value="Disable"/>
<b>Motor 1 Application Information</b>	
52 - Motoring Current Limit	<input type="text" value="100"/> %
53 - Regeneration Current Limit	<input type="text" value="20"/> %
54 - Field Weakening Current Limit	<input type="text" value="0"/> %
57 - PG Pulse Per Revolution	<input type="text" value="4"/> PPR

#### Motor 1 Regulators

58 - Current Regulator Bandwidth	<input type="text" value="600"/>	rad/sec
59 - Enable DC Bus Compensation	<input type="text" value="Enable"/>	
60 - Flux Estimator Time Constant	<input type="text" value="15"/>	msec
61 - Speed Feedback Filter Time Constant	<input type="text" value="0.2"/>	msec
62 - Speed Regulator Proportional Gain	<input type="text" value="0.25"/>	
63 - Speed Regulator Integral Gain	<input type="text" value="1.4"/>	rad/s

#### Motor 1 Fault Conditions

68 - Enable DC Bus Overvoltage Fault	<input type="text" value="Enable"/>	
69 - Enable DC Bus Undervoltage Fault	<input type="text" value="Enable"/>	
70 - Flux PLL Out of Control Fault	<input type="text" value="Disable"/>	
71 - Enable Over Temperature Fault	<input type="text" value="Enable"/>	
72 - NTC Over-temperature Voltage Threshold	<input type="text" value="1.5"/>	V
73 - Rotor lock Protection Fault	<input type="text" value="10-Sec"/>	
74 - Enable Phase Loss Fault	<input type="text" value="Disable"/>	

#### Motor 1 PWM Information

75 - Over Modulation	<input type="text" value="Enable"/>	
76 - Motor PWM Type	<input type="text" value="3Phase_Only"/>	
78 - Inverter Dead Time	<input type="text" value="0.6"/>	µsec
79 - PWM GuardBand	<input type="text" value="2"/>	µsec

#### Motor 1 Gate Drive Hardware Setup

82 - Total Bootstrap Cap Charge Time	<input type="text" value="10"/>	msec
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#### Motor 1 Current Feedback and Sample Timing

83 - Motor 1 Current Input Scaling	<input type="text" value="46"/>	mV/A
84 - Internal Current Feedback Amplifier Gain	<input type="text" value="6"/>	
85 - Motor 1 Current Input to ADC Offset Voltage	<input type="text" value="414.938"/>	mV
86 - Gate Driver Propagation Delay	<input type="text" value="0.5"/>	µsec

#### Motor 1 Gatekill Setup

93 - Overcurrent Trip Level for Internal GateKill Comparator	<input type="text" value="8"/>	A
94 - Gatekill Filter Time Constant	<input type="text" value="1"/>	µsec

#### Motor 1 Catch Spin Setup

95 - Catch Spin before Start	<input type="text" value="Disable"/>	
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