**The index in the remote**

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| --- | --- | --- | --- | --- | --- |
| Main Menu |  |  |  |  |  |
| Operation | Frequency Ref  U1-01 = 0.00 HZ |  |  |  |  |
| Output Freq  U1-02 = 0.00 Hz |  |  |  |  |
| Output Current  U1-03 = 0.00 A |  |  |  |  |
| Control Loop  Speed |  |  |  |  |
| Control Method  Open Loop FOC |  |  |  |  |
| Torque Ref  U1-06 = 0.00 A |  |  |  |  |
| Output Torque  U1-07 = 0.00 Nm |  |  |  |  |
| Output Power  U1-08 = 0.000 KW |  |  |  |  |
| DC Bus Voltage  U1-09 =48V |  |  |  |  |
| Motor Speed  U1-10 = 0 Rpm |  |  |  |  |
| Enc #1 Speed  U1-11 = 0 Rpm |  |  |  |  |
| Enc #2 Speed  U1-12 = 0 Rpm |  |  |  |  |
| Hall Speed  U1-13 = 0 Rpm |  |  |  |  |
| Input Sts  U1-14 = 11111111 |  |  |  |  |
| Output Term Sts  U1-15 = 00000000 |  |  |  |  |
| Voltage-U  U1-16 = 3.5 V |  |  |  |  |
| Voltage-V  U1-17 = 3.5 V |  |  |  |  |
| Voltage-W  U1-18 = 3.5 V |  |  |  |  |
| Current-U  U1-19 = -0.08 A |  |  |  |  |
| Current-V  U1-20 = -0.08 A |  |  |  |  |
| Current-W  U1-21 = -0.08 A |  |  |  |  |
| Ext . Tmp  U1-22=79.9 C |  |  |  |  |
| Ext . AD#1  U1-23 = 0.04 V |  |  |  |  |
| Ext . AD#2  U1-24 = 0.03 V |  |  |  |  |
| Function U1 | Function U2 |  |  |  |
| Fault Trace |  |  |  |
| Monitor |  |  |  |  |
| Autotuning |  |  |  |  |  |
| Programming | Group b  Application | Function b1  Sequence | Reference Sel  Terminal |  |  |
| Operation Sel  Terminal |  |  |
| Stopping Sel  Ramp to Stop |  |  |
| Reverse Oper  Enable |  |  |
| Acc .Time  b1-05 = 0.02 |  |  |
| BLDC to FOC  B1-06 = 1200Rpm |  |  |
| FOC to BLDC  b1-07 = 800Rpm |  |  |
| Function b2  Ref-Limit | DC Bus Max  b2-01 = 60V |  |  |
| DC Bus Min  b2-02 = 40V |  |  |
| Current Max  b2-03 = 10.0A |  |  |
| Group C  tuning | Function C1  PreTune | Res Est Curr  c1-01 = 2.0 A |  |  |
| Ind Est Curr  c1-02 = -2.0A |  |  |
| Flux Est Hz  c1-03 = 10.0HZ |  |  |
| Function C2  Bias | Vbias #1  C2-01 = 0.242 |  |  |
| Vbias #2  C2-02 = 0.500 |  |  |
| Vbias #3  C2-03 = 0.500 |  |  |
| Ibias #1  C2-01 = 0.242 |  |  |
| Ibias #2  C2-02 = 0.500 |  |  |
| Ibias #3  C2-03 = 0.500 |  |  |
| Group d  Setting | Function d1  Motor | Motor Type  PM Motor |  |  |
| Pole Pairs  d1-02 = 16 |  |  |
| Max Current  d1-03 =18.0A |  |  |
| Stator Restist  d1-04 = 0.0270 |  |  |
| Rotor Resist  d1-05 = 0.0000 |  |  |
| Ind D-axis  d1-06 = 0.3781mH |  |  |
| Ind Q-axis  d1-06 = 0.3781mH |  |  |
| Rated Flux  d1-08 = 0.1162 |  |  |
| Magnetic curr  d1-09 = 0.0000 |  |  |
| Function d2  PID | Kp (Speed)  d2-03 = 6.000 |  |  |
| Ki (Speed)  d2-04 = 0.03 |  |  |
| Kp (Id)  d2-03 = 0.100 |  |  |
| Ki (Id)  d2-04 = 0.012 |  |  |
| Kp (Iq)  d2-05 = 0.100 |  |  |
| Ki (Iq)  d2-06 = 0.012 |  |  |
| Kp (BLDC)  d2-03 = 0.34 |  |  |
| Ki (BLDC)  d2-04 = 0.039 |  |  |
| Function d3  Restore Paras | Model  QSMotor 1.5KW |  |  |
| Factory  No |  |  |
| Initialize |  |  |  |  |  |
|  |  |  |  |  |  |