

MacroControllerDetect // 6/17/2016 :2:09 PM - 192.168.0.200

MacroRing = 0 // 6/17/2016 :2:09 PM - 192.168.0.200

MacroRingOrderDetect // 6/17/2016 :2:09 PM - 192.168.0.200

system ethercat -m0 xml //6/17/2016 :2:10 PM - 192.168.0.200

system ethercat master // 6/17/2016 :2:10 PM - 192.168.0.200

Sys.MaxEcats = 1 // 6/17/2016 :2:10 PM - 192.168.0.200

MacroControllerDetect // 6/17/2016 :2:10 PM - 192.168.0.200

MacroRing = 0 // 6/17/2016 :2:10 PM - 192.168.0.200

MacroRingOrderDetect // 6/17/2016 :2:10 PM - 192.168.0.200

system ethercat -m0 xml //6/17/2016 :2:10 PM - 192.168.0.200

system ethercat master // 6/17/2016 :2:10 PM - 192.168.0.200

Sys.MaxEcats = 1 // 6/17/2016 :2:10 PM - 192.168.0.200

#\*Kill // Global Clock //6/17/2016 :2:14 PM - 192.168.0.200

Sys.CPUTimerIntr = 0 // Global Clock //6/17/2016 :2:14 PM - 192.168.0.200

PowerBrick[0].PhaseFreq= 9036.000 // Global Clock //6/17/2016 :2:14 PM - 192.168.0.200

PowerBrick[0].PhaseClockDiv = 0 // Global Clock //6/17/2016 :2:14 PM - 192.168.0.200

PowerBrick[0].PhaseClockMult= 0 // Global Clock //6/17/2016 :2:14 PM - 192.168.0.200

PowerBrick[0].ServoClockDiv= 3 // Global Clock //6/17/2016 :2:14 PM - 192.168.0.200

PowerBrick[0].Chan[0].PwmFreqMult= 0 // Global Clock //6/17/2016 :2:14 PM - 192.168.0.200

PowerBrick[0].Chan[1].PwmFreqMult= 0 // Global Clock //6/17/2016 :2:14 PM - 192.168.0.200

PowerBrick[0].Chan[2].PwmFreqMult= 0 // Global Clock //6/17/2016 :2:14 PM - 192.168.0.200

PowerBrick[0].Chan[3].PwmFreqMult= 0 // Global Clock //6/17/2016 :2:14 PM - 192.168.0.200

Sys.ServoPeriod = 0.442673749446658 // Global Clock //6/17/2016 :2:14 PM - 192.168.0.200

Sys.PhaseOverServoPeriod=0.25 // Global Clock //6/17/2016 :2:14 PM - 192.168.0.200

&\*%100 // Global Clock //6/17/2016 :2:14 PM - 192.168.0.200

Gate3[0].Chan[0].AmpEna // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

Gate3[0].Chan[0].HomeCapt // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

Gate3[0].Chan[0].ServoCapt // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

Gate3[0].Chan[0].SerialEncDataA // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

Gate3[0].Chan[0].SerialEncDataB // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

Gate3[0].Chan[0].Atan // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

Gate3[0].Chan[0].CompA // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

Gate3[0].Chan[0].CompB // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

Gate3[0].Chan[0].CompAdd // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

Gate3[0].Chan[0].PhaseCapt // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

Gate3[0].Chan[0].Status // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

Gate3[0].GpioData[0] // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

Gate3[1].GpioData[0] // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Monitor=1 // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLv.BusOverVoltage // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLv.BusUnderVoltage // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.OverTemp // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[0].OverCurrent // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[1].OverCurrent // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[2].OverCurrent // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[3].OverCurrent // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[4].OverCurrent // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[5].OverCurrent // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[6].OverCurrent // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[7].OverCurrent // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[0].I2tExcess // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[1].I2tExcess // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[2].I2tExcess // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[3].I2tExcess // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[4].I2tExcess // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[5].I2tExcess // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[6].I2tExcess // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

BrickLV.Chan[7].I2tExcess // Hardware Acc //6/17/2016 :2:14 PM - 192.168.0.200

Gate3[0].GpioData[0]=2407530736 // Hardware Acc //6/17/2016 :2:15 PM - 192.168.0.200

Gate3[0].GpioData[0]=2399142128 // Hardware Acc //6/17/2016 :2:15 PM - 192.168.0.200

Gate3[0].GpioData[0]=2403336432 // Hardware Acc //6/17/2016 :2:15 PM - 192.168.0.200

Gate3[0].GpioData[0]=2399142128 // Hardware Acc //6/17/2016 :2:15 PM - 192.168.0.200

Motor[1].pAbsPhasePos=0 // Encoder //6/17/2016 :2:50 PM - 192.168.0.200

Motor[1].AbsPhasePosFormat=0 // Encoder //6/17/2016 :2:50 PM - 192.168.0.200

Motor[1].AbsPhasePosSf=0 // Encoder //6/17/2016 :2:50 PM - 192.168.0.200

Motor[1].AbsPhasePosOffset=0 // Encoder //6/17/2016 :2:50 PM - 192.168.0.200

Motor[1].PhaseFindingTime=1 // Encoder //6/17/2016 :2:50 PM - 192.168.0.200

Motor[1].PhaseFindingDac=0 // Encoder //6/17/2016 :2:50 PM - 192.168.0.200

#1Kill // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].pLimits=PowerBrick[0].Chan[0].Status.a // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].pEnc= EncTable[1].a // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].pEnc2= EncTable[1].a // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].EncType= 5 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].pDac=PowerBrick[0].Chan[0].Pwm[0].a // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].pAdc=PowerBrick[0].Chan[0].AdcAmp[0].a // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].pAmpEnable=PowerBrick[0].Chan[0].OutCtrl.a // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].ServoCtrl = 1 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].PhaseCtrl = 4 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Gate3[0].Chan[0].PackIndata = 0 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Gate3[0].Chan[0].PackOutdata = 0 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].PhaseMode = 0 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].pPhaseEnc=PowerBrick[0].Chan[0].PhaseCapt.a // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

BrickLV.Chan[0].TwoPhaseMode=0 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].PhaseSplineCtrl = 0 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].pSineTable = Sys.SineTable[0].a // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].pVoltSineTable = Sys.SineTable[0].a // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].PwmDbComp = 0 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].PwmDbI = 0 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

PowerBrick[0].Chan[0].OutputMode = 0 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].PwmSf =7618.5 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].AmpEnableBit = 8 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].AmpFaultBit = 7 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].AmpFaultLevel = 1 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].pAmpFault=PowerBrick[0].Chan[0].Status.a // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].LimitBits = 9 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].DacShift=0 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].AdcMask = $FFFC0000 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].ctrl=Sys.servoctrl // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].DtOverRotorTc = 0 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].IxCoupleGain = 0 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].SlipGain = 0 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].AdvGain = 0 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].Stime = 0 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].PhaseOffset =-683 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

BrickLV.Reset = 1 // Hardware Interface //6/17/2016 :2:53 PM - 192.168.0.200

PowerBrick[0].Chan[0].ServoCapt // FeedbackSetup //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].ActPos // FeedbackSetup //6/17/2016 :2:53 PM - 192.168.0.200

L10=(PowerBrick[0].Chan[0].ABC&1)+5 L10 // FeedbackSetup //6/17/2016 :2:53 PM - 192.168.0.200

L10=(PowerBrick[0].Chan[0].ABC&2)/2+3 L10 // FeedbackSetup //6/17/2016 :2:53 PM - 192.168.0.200

L10=(PowerBrick[0].Chan[0].ABC&4)/4+1 L10 // FeedbackSetup //6/17/2016 :2:53 PM - 192.168.0.200

Motor[1].I2TSET =3554.68746722738 // Safety //6/17/2016 :2:55 PM - 192.168.0.200

Motor[1].I2TTRIP =101086423.917307 // Safety //6/17/2016 :2:55 PM - 192.168.0.200

Motor[1].MaxDac =10664.0624016821 // Safety //6/17/2016 :2:55 PM - 192.168.0.200

Motor[1].IdCmd =0 // Safety //6/17/2016 :2:55 PM - 192.168.0.200

Motor[1].PhaseOffset= 683 // Set Motor //6/17/2016 :2:58 PM - 192.168.0.200

Motor[1].PwmSf= 7618 // Set Motor //6/17/2016 :2:58 PM - 192.168.0.200

Motor[1].PhaseOffset= 683 // Set Motor //6/17/2016 :2:59 PM - 192.168.0.200

Motor[1].PwmSf= 7618 // Set Motor //6/17/2016 :2:59 PM - 192.168.0.200

Motor[1].IaBias = 0 // Set Motor //6/17/2016 :2:59 PM - 192.168.0.200

Motor[1].IbBias = 0 // Set Motor //6/17/2016 :2:59 PM - 192.168.0.200

Motor[1].PhaseOffset= 683 // Set Motor //6/17/2016 :2:59 PM - 192.168.0.200

Motor[1].PwmSf= 7618 // Set Motor //6/17/2016 :2:59 PM - 192.168.0.200

Motor[1].PhasePosSf = 2048/(1 \* 1 \* 128000.000000) // Set Motor //6/17/2016 :2:59 PM - 192.168.0.200

Motor[1].IiGain = 0.2624400000 // Set Motor //6/17/2016 :2:59 PM - 192.168.0.200

Motor[1].IpfGain = 0.0000000000 // Set Motor //6/17/2016 :2:59 PM - 192.168.0.200

Motor[1].IpbGain = 1.9461950684 // Set Motor //6/17/2016 :2:59 PM - 192.168.0.200

Motor[1].PhasePosSf = 2048/(1 \* 1 \* 128000.000000) // Set Motor //6/17/2016 :2:59 PM - 192.168.0.200

Motor[1].PhaseFindingDac=159.960938 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].PhaseFindingTime=22.590000 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kp = 4.042420000000000 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kvfb = 231.262934762760551 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Ki = 0.000182465450431 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kvifb = 0.000000000000000 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kviff = 0.000000000000000 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kvff = 231.262934762760551 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kaff = 6616.957509237979139 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Ke1=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Ke2=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kf1=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kf2=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Ka0=1 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Ka1=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Ka2=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Ka3=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Ka4=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Ka5=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Ka6=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Ka7=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kb0=1 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kb1=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kb2=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kb3=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kb4=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kb5=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kb6=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kb7=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kc1=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kc2=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kc3=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kc4=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kc5=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kc6=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kc7=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kd1=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kd2=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kd3=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kd4=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kd5=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kd6=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kd7=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kvifb=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kviff=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kafb=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kfff=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.MaxInt=28000 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.BreakPosErr=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kbreak=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.OutDbOn=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.OutDbOff=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.OutDbSeed=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.SwPoly7=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.SwFffInt=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.SwZvInt=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kxpg=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kxvg=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.Kxig=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.EstTime=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.EstMinDac=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.NominalGain=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.MinGainFactor=1 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.MaxGainFactor=1 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.MaxW=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.MaxDR=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.MinW=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

Motor[1].Servo.MinDR=0 // Set Motor //6/17/2016 :3:00 PM - 192.168.0.200

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : Global mask: 0xffffffff

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : CS mask: 0x201ffc

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : Motor mask: 0xc01ffd

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : Macro ring mask: 0x1e

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : Update period: 1.000000 Sec

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : Sys.Default=1 @ 6/17/2016 2:10:02 PM

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : Sys.AbortAll=1 @ 6/17/2016 2:10:02 PM

6/17/2016 :2:15 PM - 192.168.0.200, Module - Setup Motor : Sys.AbortAll=0 @ 6/17/2016 2:15:15 PM

6/17/2016 :2:15 PM - 192.168.0.200, Module - Setup Motor : Sys.AbortAll=1 @ 6/17/2016 2:15:16 PM

6/17/2016 :2:53 PM - 192.168.0.200, Module - Setup Motor : Motor[1].AmpFault=1 @ 6/17/2016 2:53:19 PM

6/17/2016 :2:55 PM - 192.168.0.200, Module - Setup Motor : Motor[1].AmpFault=0 @ 6/17/2016 2:55:33 PM

6/17/2016 :2:58 PM - 192.168.0.200, Module - Setup Motor : Sys.AbortAll=0 @ 6/17/2016 2:58:40 PM

6/17/2016 :2:09 PM - 192.168.0.200, Module - Setup Motor : Failed to scan MACRO rings. Please Right Click on Macro Node and select Configure. Details - Error: PowerBrick[0] isn't in a connected Ring.

6/17/2016 :2:09 PM - 192.168.0.200, Module - Setup Motor : There was some error while executing command stdin:8:1: error #56: MACRO RING INTEGRITY IN FAILED STATE: MacroRingOrderDetect.

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : Error - EtherCAT setup requires a Firmware upgrade to version 2.0.2.210 or newer.

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : There are no motors setup for this device. To add a motor click File -> Add -> New Motor from the menu option.

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : Failed to scan MACRO rings. Please Right Click on Macro Node and select Configure. Details - Error: PowerBrick[0] isn't in a connected Ring.

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : There was some error while executing command stdin:38:1: error #56: MACRO RING INTEGRITY IN FAILED STATE: MacroRingOrderDetect.

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : Error - EtherCAT setup requires a Firmware upgrade to version 2.0.2.210 or newer.

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : New setup created successfully for the device 192.168.0.200.

6/17/2016 :2:14 PM - 192.168.0.200, Module - Global Clock : Data accepted succesfully!

6/17/2016 :2:15 PM - 192.168.0.200, Module - Setup Motor : New motor #1 is added to the setup.

6/17/2016 :2:35 PM - 192.168.0.200, Module - Amplifier : Amplifier manufacturer ' Delta Tau Data Systems, Inc. ' - ' Power Brick LV - 5A/15A ' information has been updated.

6/17/2016 :2:35 PM - 192.168.0.200, Module - Amplifier : Amplifier manufacturer and partNumber for the motor #1 has been changed to ' Delta Tau Data Systems, Inc. ' and ' Power Brick LV - 5A/15A '.

6/17/2016 :2:37 PM - 192.168.0.200, Module - Motor : Information for the motor manufacturer ' testcustommotor1 ' and partnumber 'testcustommotorpart1' could not be found for motor #1. Please add the manufacturer information choosing 'Add New' option or assign another manufacturer.

6/17/2016 :2:47 PM - 192.168.0.200, Module - Motor : Motor manufacturer ' PPMAC Bk-LV Demo Stand Brushless ' - ' BL17B24-04 ' information has been updated.

6/17/2016 :2:48 PM - 192.168.0.200, Module - Motor : Motor manufacturer and PartNumber for the motor #1 has been changed to ' PPMAC Bk-LV Demo Stand Brushless ' and ' BL17B24-04 '.

6/17/2016 :2:49 PM - 192.168.0.200, Module - Motor : Motor manufacturer and PartNumber for the motor #1 has been changed to ' PPMAC Bk-LV Demo Stand Brushless ' and ' BL17B24-04 '.

6/17/2016 :2:50 PM - 192.168.0.200, Module - Encoder : Encoder Feedback FB\_AQuadB ,FB\_AQuadB,FB\_AQuadB Accepted successfully !

6/17/2016 :2:50 PM - 192.168.0.200, Module - Encoder : Data accepted succesfully!

6/17/2016 :2:53 PM - 192.168.0.200, Module - Hardware Interface : Setup for Motor 1 successfully downloaded to PowerPMAC. Data Accept Successful!

6/17/2016 :2:55 PM - 192.168.0.200, Module - Safety : Data accepted succesfully!

6/17/2016 :2:56 PM - 192.168.0.200, Module - Set Motor : detectphaseoffset

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Data accepted succesfully!

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Data accepted succesfully!

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Data accepted succesfully!

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Data accepted succesfully!

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Data accepted succesfully!

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Data accepted succesfully!

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Data accepted succesfully!

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Data accepted succesfully!

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Data accepted succesfully!

6/17/2016 :2:09 PM - 192.168.0.200, Module - Setup Motor Container : There was some error while executing database query. Details : Database Error:PROCEDURE ppmac192\_168\_0\_200.GenerateMacroMasterStationTable does not exist.

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : There are no EtherCAT devices connect to Master[0].

6/17/2016 :2:10 PM - 192.168.0.200, Module - Setup Motor : There are no EtherCAT devices connect to Master[0].

6/17/2016 :2:49 PM - 192.168.0.200, Module - Setup Motor Container : There was some error while executing database query. Details : Database Error:You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1.

6/17/2016 :2:52 PM - 192.168.0.200, Module - Setup Motor Container : There was some error while executing database query. Details : Database Error:You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1.

6/17/2016 :2:53 PM - 192.168.0.200, Module - FeedbackSetup : Graph Control Connected

6/17/2016 :2:55 PM - 192.168.0.200, Module - Set Motor : Current sensor direction detection test started.

6/17/2016 :2:55 PM - 192.168.0.200, Module - Set Motor : Storing the Motor[1] initial data structure values for later recall.

6/17/2016 :2:55 PM - 192.168.0.200, Module - Set Motor : Checking minimum setting requirements for performing this test on Motor[1].

6/17/2016 :2:55 PM - 192.168.0.200, Module - Set Motor : Abort fault detected.

6/17/2016 :2:55 PM - 192.168.0.200, Module - Set Motor : Please ensure abort input is wired and powered before repeating this test (Sys.pAbortAll)

6/17/2016 :2:56 PM - 192.168.0.200, Module - Set Motor : Current sensor direction detection test started.

6/17/2016 :2:56 PM - 192.168.0.200, Module - Set Motor : Storing the Motor[1] initial data structure values for later recall.

6/17/2016 :2:56 PM - 192.168.0.200, Module - Set Motor : Checking minimum setting requirements for performing this test on Motor[1].

6/17/2016 :2:56 PM - 192.168.0.200, Module - Set Motor : Abort fault detected.

6/17/2016 :2:56 PM - 192.168.0.200, Module - Set Motor : Please ensure abort input is wired and powered before repeating this test (Sys.pAbortAll)

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Current sensor direction detection test started.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Storing the Motor[1] initial data structure values for later recall.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Checking minimum setting requirements for performing this test on Motor[1].

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : A maximum excitation magnitude of 5713 (bits) was selected based upon Motor[1].PwmSf setting.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Writing zeros to the command values.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Enabling the amplifier

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Sampling the current sensor reading with zero commands.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Calculating Maximum ADC allowed based upon I2TSet and Checking for ADC Latch possibility.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Maximum ADC allowed current = 888 ADC bits

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Increasing the output to the selected excitation magnitude.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : The excitation magnitude will be limited to 363 (bits) to prevent an I2T fault.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Sampling the current sensor readings with excitation values commanded.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Disabling the amplifier.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Writing zeros to the command values.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Restoring the values for Motor[1].ServoCtrl and Motor[1].PhaseCtrl.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : At 0 bits Command: ADC A= -4 ADC B=1

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : At 363 bits Command: ADC A= -623 ADC B=615

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : ADC A On - ADC A Off = -619

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : ADC B On - ADC B Off = 614

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Detected ADC deviation: 0.008078

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Current sensor direction detection test is done.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Current sensor direction detection test started.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Storing the Motor[1] initial data structure values for later recall.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Checking minimum setting requirements for performing this test on Motor[1].

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : A maximum excitation magnitude of 5713 (bits) was selected based upon Motor[1].PwmSf setting.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Writing zeros to the command values.

6/17/2016 :2:58 PM - 192.168.0.200, Module - Set Motor : Enabling the amplifier

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Sampling the current sensor reading with zero commands.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Calculating Maximum ADC allowed based upon I2TSet and Checking for ADC Latch possibility.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Maximum ADC allowed current = 888 ADC bits

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Increasing the output to the selected excitation magnitude.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : The excitation magnitude will be limited to 363 (bits) to prevent an I2T fault.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Sampling the current sensor readings with excitation values commanded.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Disabling the amplifier.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Writing zeros to the command values.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Restoring the values for Motor[1].ServoCtrl and Motor[1].PhaseCtrl.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : At 0 bits Command: ADC A= 0 ADC B=4

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : At 363 bits Command: ADC A= -618 ADC B=617

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : ADC A On - ADC A Off = -618

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : ADC B On - ADC B Off = 613

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Detected ADC deviation: 0.008091

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Current sensor direction detection test is done.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Current sensor offset calibration test started.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Storing the Motor[1] initial data structure values for later recall.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Checking minimum setting requirements for performing this test on Motor[1].

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Voltage six step test for motor 1 started.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Storing the values for Motor[1].ServoCtrl and Motor[1].PhaseCtrl

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Checking minimum setting requirements for performing this test on Motor[1].

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : No excitation magnitude was entered. Setup will choose appropriate value for this test.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : An excitation magnitude of 5713 (bits) was selected based upon Motor[1].PwmSf setting.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Writing zeros to command output channels.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Enabling the amplifier.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Checking for amplifier fault.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Detecting maximum jitter on phase position encoder while stationary.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Maximum Dither detected on phase position: 0 (PhaseEnc LSB)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Calculating Maximum ADC allowed based upon I2TSet and Checking for ADC Latch possibility.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Maximum ADC reading (Allowed Current) = 2666 bits

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : CommDir = 1.000000

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Pulling the motor to commutation angle -5 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Determining maximum PWM command which keeps current below allowed current

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : The PWM command will be limited to 1336 (bits) to prevent an over current fault on the amplifier.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : PWM A, B, C: 117.000000, 1099.000000, -1216.000000

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : A PWM command of 1336 bits generates 2690 bits ADC reading

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Output Off: ADCA: -3 ADCB: 3

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Output On : ADCA: -113 ADCB: -2770

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Checking the commanded and measured correlation of currents.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Cycling the outputs through 6 voltage step test and monitoring the current readings.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Checking ADC and phase position readings at commutation angle 0 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Checking ADC and phase position readings at commutation angle 60 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Checking ADC and phase position readings at commutation angle 120 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Checking ADC and phase position readings at commutation angle 180 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Checking ADC and phase position readings at commutation angle 240 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Checking ADC and phase position readings at commutation angle 300 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Checking ADC and phase position readings at commutation angle 360 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Moving the motor back to its starting point.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation angle: 360 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation angle: 300 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation angle: 240 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation angle: 180 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation angle: 120 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation angle: 60 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation angle: 0 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Disabling the amplifier.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Writing zeros to command output channels.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Restore the values for ServoCtrl and PhaseCtrl.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Examining the collected data.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : The following list the measured phase position feedback measurements per step.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Step | Step Size | Step Size(Hex)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 1 | -21325 | FFFFACB3

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 2 | -21240 | FFFFAD08

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 3 | -21406 | FFFFAC62

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 4 | -21501 | FFFFAC03

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 5 | -21295 | FFFFACD1

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 6 | -21118 | FFFFAD82

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Detected ADC deviation: 26.327889

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Counts per electrical cycle based on median step size : -127860 (PhaseEnc LSB).

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Counts per electrical cycle based on sum of the steps : -127885 (PhaseEnc LSB).

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Setup program setected 128000 \* 1 (PhaseEnc LSB) per commutation cycle with accuracy of 115 (PhaseEnc LSB).

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Voltage six step test completed.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor :

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Current loop tune test started.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Storing the values for parameters which will be modified through out the test.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Checking minimum setting requirements for performing this test on Motor[1].

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : A rough phasing magnitude of 5713 (bits) was selected based upon Motor[1].PwmSf setting.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : The continuous current will be used as excitation magnitude (based upon Motor[1].I2tSet).

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Selected excitation Magnitude : 2666 (bits)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Setup software uses 180.72 Hz as desired bandwidth.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Writing zeros to command output channels.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Enabling the amplifier.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Moving the motor to zero phase angle using PWM commands.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commanded PWM magnitude: 5713 bits

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Maximum ADC reading allowed (Allowed current) = 1777 bits

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : The phasing PWM command magnitude will be limited to -874 (bits) to prevent an over current fault of the amplifier.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Waiting for motor to settle in 0 Phase Angle.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Performing current loop tuning iterations with a current step size of 2666 bits.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Natural Freq(Hz) Rise Time(msec) Peak Time(msec) Overshoot(%) IiGain IpbGain Action

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 45.187962 10.070828 17.817618 0.216515 0.030000 0.010000 Increase IiGain (1.4)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 60.391853 7.414785 14.608234 0.304843 0.045000 0.010000 Increase IiGain (1.4)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 78.924950 4.648074 8.632138 3.020079 0.067500 0.010000 Increase IiGain (1.4)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 92.370046 3.098716 6.640106 11.053853 0.101250 0.010000 Increase IiGain (1.4)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 110.746733 2.213369 5.422753 19.777959 0.151875 0.010000 Increase IiGain (1.4)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 131.468714 1.660027 4.205401 30.055271 0.227813 0.010000 Increase IpbGain (1.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 131.859294 1.660027 4.316069 29.723046 0.227813 0.015000 Increase IpbGain (1.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 131.930754 1.660027 4.426737 29.662909 0.227813 0.022500 Increase IpbGain (1.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 141.233784 1.549358 4.316069 29.757719 0.227813 0.033750 Increase IpbGain (1.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 133.568989 1.660027 4.426737 28.335919 0.227813 0.050625 Increase IpbGain (1.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 134.228304 1.660027 4.426737 27.828025 0.227813 0.075938 Increase IpbGain (1.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 134.582681 1.660027 4.426737 27.560807 0.227813 0.113906 Increase IpbGain (1.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 137.849830 1.660027 4.537406 25.268103 0.227813 0.170859 Increase IpbGain (1.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 130.467320 1.770695 4.316069 24.422524 0.227813 0.256289 Increase IiGain (1.4)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 159.145124 1.328021 3.541390 34.016638 0.341719 0.256289 Increase IpbGain (1.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 161.941669 1.328021 3.541390 31.777552 0.341719 0.384434 Increase IpbGain (1.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 167.947580 1.328021 3.652058 27.729720 0.341719 0.576650 Increase IpbGain (1.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 165.536972 1.438690 3.541390 21.913752 0.341719 0.864976 Increase IiGain (1.4)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 215.404938 0.996016 2.988048 32.072442 0.512578 0.864976 Decrease IiGain (1.1)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 215.361224 0.996016 2.988048 32.097580 0.512578 0.864976 Decrease IiGain (2.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 204.393168 1.106684 3.320053 26.345660 0.410063 0.864976 Decrease IiGain (2.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 167.276140 1.438690 3.652058 21.114865 0.328050 0.864976 Decrease IiGain (2.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 160.011125 1.660027 4.426737 14.773206 0.262440 0.864976 Decrease IiGain (2.1)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 147.933473 1.770695 4.205401 15.557641 0.262440 0.864976 Increase IpbGain (3.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 159.442234 1.881363 4.648074 9.076866 0.262440 1.297463 Increase IpbGain (3.2)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 167.745104 2.324037 4.980080 1.863227 0.262440 1.946195 Completed. (3.3)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Exporting graph data.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Current loop step test results:

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Rise time: 2.32404 (msec)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Overshoot: 1.86323%

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Damping ratio: 0.785148

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Natural frequency: 167.745 Hz

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Settling time: 3.46273 (msec)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Current loop tuning test finished.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Arguments Entered:

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Motor Number: 1

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Current Step Magnitude: 0.000000

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation Size: 0.000000

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Current six step test for motor 1 started.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Storing motor register values which may change during the test.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : No excitation magnitude was entered. Setup will choose appropriate value for this test.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : An excitation magnitude of 3021 (bits) was selected based upon I2T settings.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Moving the motor to zero phase angle

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Checking for amplifier fault.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : CommDir = 1.000000

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Pulling the motor to -5 degrees commutation angle.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Detecting maximum dither on phase position encoder while stationary.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Maximum dither detected on phase position: 0 (PhaseEnc LSB)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutating the motor though one full electrical cycle.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Waiting for phase position to settle less than maximum dither reading at commutation angle 0 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Waiting for phase position to settle less than maximum dither reading at commutation angle 60 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Waiting for phase position to settle less than maximum dither reading at commutation angle 120 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Waiting for phase position to settle less than maximum dither reading at commutation angle 180 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Waiting for phase position to settle less than maximum dither reading at commutation angle 240 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Waiting for phase position to settle less than maximum dither reading at commutation angle 300 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Waiting for phase position to settle less than maximum dither reading at commutation angle 360 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Moving the motor back to its starting point.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation angle: 360 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation angle: 300 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation angle: 240 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation angle: 180 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation angle: 120 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation angle: 60 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Commutation angle: 0 degrees.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Killing the amplifier.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Examining the collected data.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : The following list the measured phase position feedback measurements per step.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Step | Step Size | Step Size(Hex)

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 1 | 21073 | 5251

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 2 | 21248 | 5300

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 3 | 21252 | 5304

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 4 | 21555 | 5433

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 5 | 21449 | 53C9

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : 6 | 21411 | 53A3

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Counts per electrical cycle based on median step size : 127986 (PhaseEnc LSB).

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Counts per electrical cycle based on sum of the steps : 127988 (PhaseEnc LSB).

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Setup program setected 128000 \* 1 (PhaseEnc LSB) per commutation cycle with accuracy of 12 (PhaseEnc LSB).

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Current six step test completed.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Arguments Entered:

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Motor Number: 1

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Maximum open loop command percentage: 0.000000

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Open loop command duration (msec): 0.000000

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Number of iterations: 0

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Open loop test for motor 1 started.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Storing motor register values which may change during the test.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Checking for amplifier fault.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : Moving the motor to commutation angle zero.

6/17/2016 :2:59 PM - 192.168.0.200, Module - Set Motor : A phasing current of 3021 (bits) was selected based upon I2T setting.

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Phasing Completed.

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Selected maximum open loop command: 10%

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Open loop test with 2.000000% command output

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Measured velocities :

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Positive velocity: 57.285156

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Negative velocity: -52.601562

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Open loop test with 4.000000% command output

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Measured velocities :

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Positive velocity: 144.289062

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Negative velocity: -96.476562

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Step 1 - Position feedback slope: Positive Velocity feedback slope: Positive

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Step 2 - Position feedback slope: Negative Velocity feedback slope: Negative

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Step 3 - Position feedback slope: Positive Velocity feedback slope: Positive

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Step 4 - Position feedback slope: Negative Velocity feedback slope: Negative

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Phase reference setup for motor 1 started.

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Storing motor register values which may change during the test.

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Checking for amplifier fault.

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Detecting the phasing method for motor #1

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Auto detecting the phasing method ...

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Four guess phase search method is selected.

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Moving the motor to commutation angle 180 degrees.

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Selected movement time : 10.000000 msec

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Finding the minimum DAC required for minimum movement in 4-guess method.

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Info: A phasing magnitude of 159 (bits) was selected for phasing.

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Servo loop tuning test for motor 1 started.

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Storing motor register values which may change during the test.

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Checking for amplifier fault.

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Establishing commutation phase reference.

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Plant Gain = 771.21260

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Theoritical Maximum Bandwidth = 56.475 Hz

6/17/2016 :3:00 PM - 192.168.0.200, Module - Set Motor : Selected Bandwidth = 8.840 Hz