

Maximum resistive load (6.6V supply):  
 - 1.9 Ohm for 2.5A maximum,  
 - 2.4 Ohm for 2A maximum, and  
 - 4.9 Ohm for 1A maximum.

Cable resistance:  
 - 0.17 Ohm for 10m cable length (AWG20)  
 - 0.42 Ohm for 10m cable length (AWG24)

- H1 #4 screw, flat, 1/2"
- H2 #4 lock washer
- H3 #4 nut
- H4 insulator
- H5 insulating shoulder washer

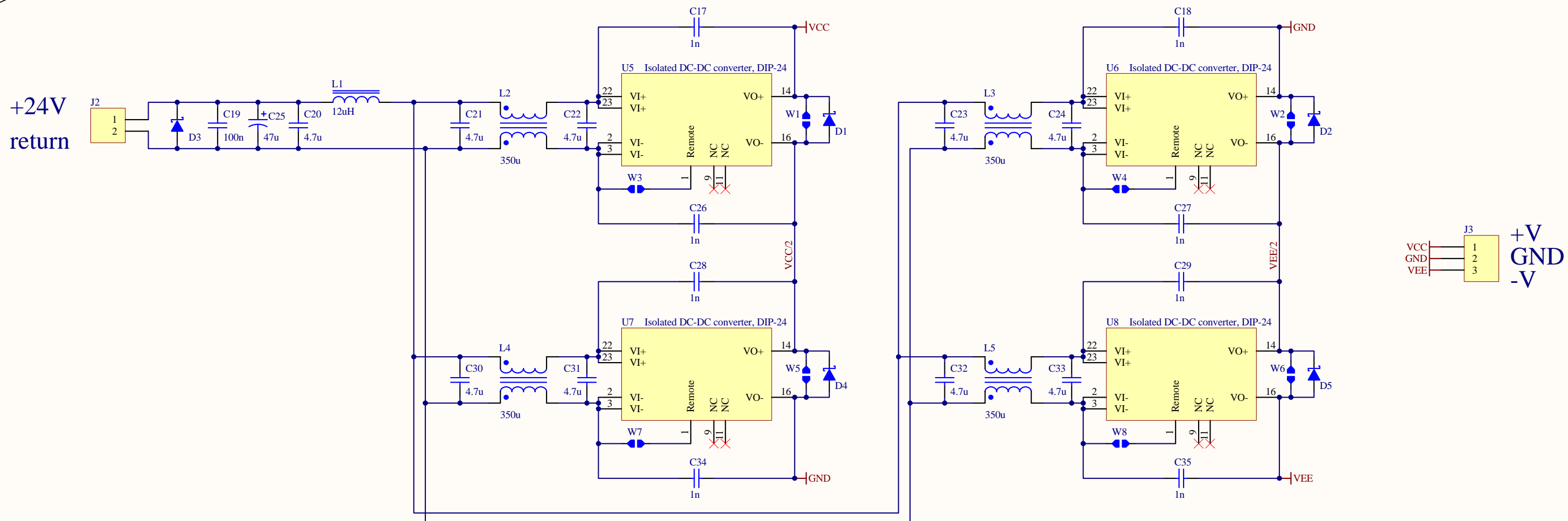
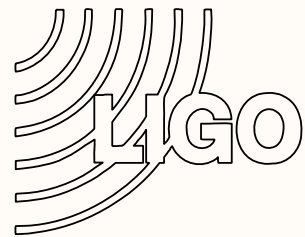
**Internal Connections:**  
 P1/P9: PT100/PT1000 supply lines  
 P2/P10: PT100/PT1000 sensing lines  
 P3/P11: Drive voltage ( $\pm 10V$  full range)  
 P6/P14: Current readback (4 Ohm)  
 P7/P15: Voltage readback of load (gain of 2)  
 P8: Ground

J2-1: +24V supply  
 J2-2: +24V return

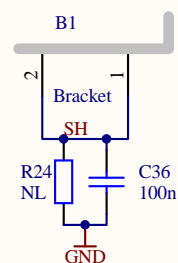
J3: unconnected

**External Connections:**  
 J1-1: PT100/PT1000 positive supply line  
 J1-9: PT100/PT1000 negative supply line  
 J1-2: PT100/PT1000 positive sensing lines  
 J1-10: PT100/PT1000 negative sensing lines  
 J1-3/J1-4/J1-5/J1-6: Positive TEC drive  
 J1-11/J1-12/J1-13/J1-14: Negative TEC drive  
 J1-7: Positive TEC drive sensing  
 J1-15: Negative TEC drive sensing  
 J1-8: Ground (unconnected)

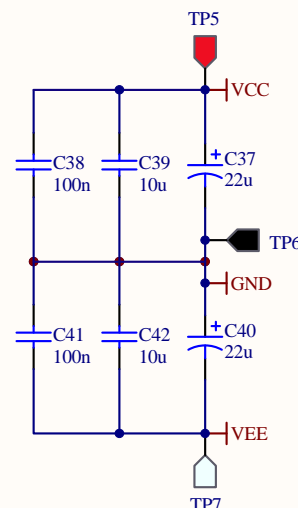
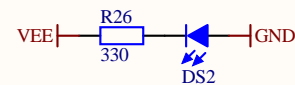
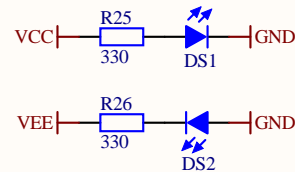
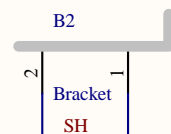
Title <b>EtherCAT TEC Driver</b>		
Size B	Number <b>D1201359</b>	Revision <b>1</b>
Date: 10/11/2012	Sheet of	
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- H6 #4 screw, 3/8"
- H7 #4 screw, 3/8"
- H8 #4 lock washer
- H9 #4 lock washer
- H10 #4 nut
- H11 #4 nut



- H12 #4 screw, 3/8"
- H13 #4 screw, 3/8"
- H14 #4 lock washer
- H15 #4 lock washer
- H16 #4 nut
- H17 #4 nut



**Nominal Supply voltages (Traco Power):**

- THD 12-2411: 5.1V (2.4A)
- THD 12-2409/THD 12-2410: 5.8V (3.5A)
- THD 12-2410/THD 12-2410: 6.6V (3.5A)
- THD 12-2409/THD 12-2411: 7.6V (2.4A)
- THD 12-2410/THD 12-2411: 8.4V (2.4A)
- THD 12-2411/THD 12-2411: 10.2V (2.4A)
- THD 12-2412: 12V (1A only)

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