



Stepper Driver #1 **Stepper Driver #2** C57 100n C58 1u/50V 0805 1276-1029-1-ND C60 220u/63V P10347-ND C63 100n C64 1u/50V 0805 1276-1029-1-ND C66 220u/63V P10347-ND C59 4.7uF/50V 1206 587-2994-1-ND C65 4.7uF/50V 1206 587-2994-1-ND GND GND GND GND GND Q9 CSD18531Q5A 296-30573-1-ND Q10 CSD18531Q5A 296-30573-1-ND SCS SCLK SCS SCLK Q11 CSD18531Q5A 296-30573-1-ND Q12 CSD18531Q5A 296-30573-1-ND ENA_DRV1 RESET_DRV STP_DRV1 DIR_DRV1 SLEEPn AOUT2 SLEEPn AOUT2 RESET STEP/AIN1 RESET_DRV STP_DRV2 DIR_DRV2 9 RESET 10 STEP/AIN1 11 DIR/AIN2 AISENP AISENN AISENP AISENN STALLn_1 STALLn_2 STALLn FAULTn B1HS RIN1 B1LS B1LS Q13 CSD18531Q5A 296-30573-1-ND Q14 CSD18531Q5A 296-30573-1-ND B2HS B2HS BOUT2 B2LS BOUT2 B2LS VINT BISENP 25 BISENN 24 12 00 12 80 BISENP 29 GND 38 GND TT PPAD 29 GND 38 GND TT PPAD BISENN 24 Q15 CSD18531Q5A 296-30573-1-ND Q16 CSD18531Q5A 296-30573-1-ND BEMF 20 BEMF 20 C69 100n DRV8711 DRV8711DCPR-ND DRV8711 DRV8711DCPR-ND C74 0.033R WSHA-.033CT-ND 0.033R WSHA-.033CT-ND GND GND GND GND GND GND Q17 CSD18531Q5A 296-30573-1-ND Q18 CSD18531Q5A 296-30573-1-ND Q19 CSD18531Q5A 296-30573-1-ND Q20 CSD18531Q5A 296-30573-1-ND Q21 CSD18531Q5A 296-30573-1-ND Q22 CSD18531Q5A 296-30573-1-ND 9 7 8 9 7 6 5 Q23 CSD18531Q5A 296-30573-1-ND Q24 CSD18531Q5A 296-30573-1-ND 0.033R WSHA-.033CT-ND 0.033R WSHA-.033CT-ND **Conrad Electronic SE CONRAD** Klaus Conrad Strasse 1 F20131013-01 RFO 92240 Hirschau 1851 CTC V3.0 Größe Schaltplan Motor Driver 1 + 2

Stepper Driver #4 Stepper Driver #3 C75 100n C76 1u/50V 0805 1276-1029-1-ND C78 220u/63V P10347-ND C81 100n C82 1u/50V 0805 1276-1029-1-ND C84 220u/63V P10347-ND C77 4.7uF/50V 1206 587-2994-1-ND C83 4.7uF/50V 1206 587-2994-1-ND GND GND GND GND GND Q25 CSD18531Q5A 296-30573-1-ND Q26 CSD18531Q5A 296-30573-1-ND SCS SCLK SCS SCLK Q27 CSD18531Q5A 296-30573-1-ND Q28 CSD18531Q5A 296-30573-1-ND ENA_DRV3 SLEEPn AOUT2 SLEEPn AOUT2 RESET_DRV STP_DRV3 DIR_DRV3 RESET STEP/AIN1 RESET_DRV STP_DRV4 DIR_DRV4 9 RESET 10 STEP/AIN1 11 DIR/AIN2 AISENP AISENN AISENP AISENN STALLn_3 STALLn_4 STALLn FAULTn B1HS RIN1 B1LS B1LS Q29 CSD18531Q5A 296-30573-1-ND Q30 CSD18531Q5A 296-30573-1-ND B2HS B2HS BOUT2 B2LS BOUT2 B2LS VINT BISENP 25 BISENN 24 12 00 12 80 BISENP 29 GND 38 GND TT PPAD 29 GND GND 38 GND PPAD BISENN 24 Q31 CSD18531Q5A 296-30573-1-ND Q32 CSD18531Q5A 296-30573-1-ND BEMF 20 BEMF 20 C87 100n DRV8711 DRV8711DCPR-ND DRV8711 DRV8711DCPR-ND 0.033R WSHA-.033CT-ND 0.033R WSHA-.033CT-ND GND GND GND GND GND GND Q33 CSD18531Q5A 296-30573-1-ND Q34 CSD18531Q5A 296-30573-1-ND Q35 CSD18531Q5A 296-30573-1-ND Q36 CSD18531Q5A 296-30573-1-ND Q37 CSD18531Q5A 296-30573-1-ND Q38 CSD18531Q5A 296-30573-1-ND 9 7 8 9 7 6 5 Q39 CSD18531Q5A 296-30573-1-ND Q40 CSD18531Q5A 296-30573-1-ND 0.033R WSHA-.033CT-ND 0.033R WSHA-.033CT-ND **Conrad Electronic SE CONRAD** Klaus Conrad Strasse 1 F20131013-01 RFO 92240 Hirschau 1851 CTC V3.0 Größe Schaltplan Motor Driver 3 + 4

Stepper Driver #5





