

Three_Phase_Inverter_Controller

Reference

AA1 AA3 AA5

AA2 AA4 AA6

C2

C3 C4 C5

C1 C10 C11 C12 C13 C15 C16 C17 C18 C19 C22 C23 C24 C27 C30 C31 C32 C33 C40 C41 C42 C6 C8 C9

C14 C20 C21 C25 C26 C28 C29 C34 C35 C36 C37 C38 C39 C7

C43

D3

D1 D2 D4 D5 D6

J1

J3

J4

J5

J6

J7

J8

J2

JP1

JP2

JP3

JP4

JP5

L1

Q1 Q2 Q3 Q4 Q5 Q6

R1

R12 R13 R14 R15 R16

R17

R18

R20 R21

R22

R24

R25

R26

R29 R30

R33 R34 R35 R36 R37 R38

R10 R11 R19 R2 R23 R27 R28 R3 R31 R32 R39 R4 R40 R41 R42 R43 R44 R46 R5 R6 R7 R8 R9

R45

SW1

TP1

TP2

TP3

TP4

TP5

TP6

TP7

TVS1

U1

U2

Three_Phase_Inverter_Controller

U3

U4

U5

U6

U7

U8

U10 U11 U9

Three_Phase_Inverter_Controller

Quantity x	Quantity x3	Value	Footprint	MFG #
3		9 OUT_1_H		
3		9 OUT_1_L		
1		3 4.5nF	0603	CL10B472KB8NNNC
3		9 150uF	Custom	AFK157M50G24T-F
24		72 100nF	0603	CC0603JRX7R9BB104
14		42 4.7uF	1206	CL31B475KBHVPNE
1		3 27pF	0603	CL10C270JB8NNNC
1		3 LNJ167W8RRA	Custom	LNJ167W8RRA
5		15 PMEG6030ETP	SOD-128	PMEG6030ETP
1		3 POWER	0.1" Header	
1		3 CURRENT	0.1" Header	
1		3 I2C	0.1" Header	
1		3 SPARE	0.1" Header	
1		3 UART	0.1" Header	
1		3 USB_B	USB-B	
1		3 ISP	0.1" Header, 2x3	
1		3 HALL	0.1" Header, 1x4	282834-4
1		3 HALL_P_EN	PCB Trace	
1		3 I2C_SDA	PCB Trace	
1		3 I2C_SCL	PCB Trace	
1		3 SD	PCB Trace	
0		0 SHDN_SELECT	0.1" Header, 1x3, male	
1		3 68uH	Custom	SDR0604-680KL
6		18 IXFN110N60P3	Custom	
1		3 1M	0603	RC0603JR-071ML
5		15 0R	0603	RC0603JR-070RL
1		3 45.3k	0603	RC0603FR-0745K3L
1		3 26.1k	0603	RC0603FR-0726K1L
2		6 27R	0603	RC0603FR-0727RL
1		3 6.8k	0603	RC0603FR-076K8L
1		3 470k	0603	RC0603FR-07470KL
1		3 68k	0603	RC0603FR-0768KL
1		3 12k	0603	RC0603FR-0712KL
2		6 180R	0805	ERJ-P06J181V
6		18 10R	0805	RNCP0805FTD10R0
23		69 10k	0603	RC0603FR-0710KL
1		3 0.05R	1206	ERJ-8CWJR050V
1		3 ~MCU_RST	3342 (Switch)	TL3342F160QG/TR
1		3 CBUS1	0805	RCT-0C
1		3 CBUS2	0805	RCT-0C
1		3 CBUS3	0805	RCT-0C
1		3 VIN	0805	RCT-0C
1		3 +12V	0805	RCT-0C
1		3 12V_HLDP	0805	RCT-0C
1		3 5V_BUCK	0805	RCT-0C
1		3 PRTR5V0U2X	TO-253-4	PRTR5V0U2X
1		3 TPS22810	SOT-23-6	TPS22810DBVR
1		3 LMR16010	8-SO PowerPad	LMR16010PDDA

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1	3 MCP6561	SOT-23-5	MCP6561T-E/OT
1	3 FT230XS	16-SSOP	FT230XS-U
0	0 ATMEGA328PB-AU	32-TQFP	ATMEGA328PB-AU
1	3 SN74LVC1G04-Q1	SOT-23-5	SN74LVC1G04QDBVRQ1
1	3 LTC4413	10-WFDFN Exposed Pad	LTC4413EDD#TRPBF
1	3 ECS-3961	4-SMD Crystal	ECS-3961-160-AU-TR
3	9 IR2110S	16-SOIC (wide)	IR2110SPBF

