



Title		
Size	Number	Revision
A		
Date	03/2020	Sheet 1 of 1
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Comment	Description	Designator	Footprint	LibRef	Quantity
Cap Pol1	Polarized Capacitor (Radial)	C11, C12, C13, C14, C15, C16, C17, C18, C21	RB7.6-15	Cap Pol1	9
Cap2	Capacitor	C19	CAPR5-4X5	Cap2	1
Cap	Capacitor	C20	RAD-0.3	Cap	1
1N4001	1 Amp General Purpose Rectifier	D6, D7, D8, D10	DO-41	Diode 1N4001	4
Bridge	Full Wave Diode Bridge	D9	D-38	Bridge1	1
BTA41	TRIAC ALTERNISTOR 600V TO220AB	D11	FP-TO-220AB-MFG	CMP-12193-000008-1	1
Opto coupler	Header, 2-Pin	P8, P16	HDR1X2	Header 2	2
12AC	Header, 3-Pin	P9	HDR1X3	Header 3	1
PID IN	Header, 2-Pin	P10	HDR1X2	Header 2	1
PT100	Header, 2-Pin	P11	HDR1X2	Header 2	1
SENSOR OUT	Header, 2-Pin	P12, P17	HDR1X2	Header 2	2
LOAD	Header, 2-Pin	P13	HDR1X2	Header 2	1
230V	Header, 2-Pin	P14	HDR1X2	Header 2	1
PID OUT	Header, 2-Pin	P15	HDR1X2	Header 2	1
MOC3021	OPTOISOLATOR 4.17KV TRIAC 6DIP	Q2	FP-646BX-MFG	CMP-07144-000005-1	1
2N3904	NPN Bipolar Transistor	Q3	ONSC-TO-92-3-29-11	NPN	1
Res1	Resistor	R43, R44, R45, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86	AXIAL-0.3	Res1	43
RPot	Potentiometer	R46	VR5	RPot	1
L7912CV	Negative Voltage Regulator, -12V, 3-Pin TO-220	U17	TO-220	CMP-0244-00457-1	1
L7812CV	Positive Voltage Regulator, 12V, 3-Pin TO-220	U18, U21	TO220	CMP-0244-00450-1	2
UA741CP	General-Purpose Operational Amplifier, 7 to 36 V, 0 to 70 degC, 8-pin DIP (P8), Pb-Free (RoHS)	U19, U20, U22, U24, U25, U26, U27, U28, U29, U30, U31, U32	P0008A	CMP-0017-00973-2	12
LM339N	IC QUAD DIFF COMPARATOR 14-DIP	U23	FP-N0014A-MFG	CMP-0055-00143-4	1