



Bill of Materials Toroid soft start

Project: DE-160724.PrjPcb
Variant: None

Creation Date: 22. 7. 2024. 12:55:19
Print Date: 45495 45495,53863

Print Date:	45495	45495,53863	· :		
			:		
Footprint	Comment	LibRef	Designator	Description	Quantity
0805	10uF	C0805	C1	Ceramic Chip Capacitor - Standard Ceramic Chip Capacitor - Standard	
0603 X2 CAP	100nF 47nF	C0603 CAP X2	C2, C5, C7, C10, C14, C15	Ceramic Chip Capacitor - Standard X2 275VAC capaitor	
0805	4u7	C0805	C6	Ceramic Chip Capacitor - Standard	
0603	1uF	C0603	C8, C16, C17, C18, C19, C21	Ceramic Chip Capacitor - Standard	
0603	10nF	C0603	C9	Ceramic Chip Capacitor - Standard	
1206	C1206	C1206	C11, C20	Ceramic Chip Capacitor - Standard	
CAPPR5-	4700uF	EKA00GG447C 00	C12	Aluminum Electrolytic Capacitor, Radial Style with Long Leads: 4700uF, 10V	
13X25 CAPPR5-	470uF	EKA00DD347F0	C13	Aluminum Electrolytic Capacitor, Radial	
10X16	470di	0	013	Style with Long Leads: 470uF, 35V	
SOD323	1N4148	1PS76SB10	D1, D2, D3, D5, D6, D7, D10	Schottky Barrier Diode Schottky Rectifier	
SMB	ZD12V	10BQ100	D4	Schottky Rectifier	
ONSC-TO-	BTA16-600	BTA08- 600BW3G	D8	Triacs, Silicon Bidirectional Thyristor, 3-Pin	
220-3-221A- 07		600BW3G		TO-220, Pb-Free, Tube	
DO-41	ZD8V2	1N4003	D9	1.0 Ampere General Purpose Rectifier	
SMB	S3GB	D Schottky	D11, D12, D13, D14	Schottky Diode	
1 6 YO 8 YO 8	STATUS_LED	HSMB-C190	D15	Blue Surface Mount Chin LED Blue	
SMB	1N4001 HF25F	D Schottky HF25F	D16, D17, D18, D19	Schottky Diode PCB relay 250VAC/20A 30VDC/16A	
SMB HF25F KONEKTOR	KONEKTOR 4	KONEKTOR 4	P1	Razdvojivi konektor 4 pina	
4 PINA	PINA	PINA	['	reazuvojivi koriektor 4 piria	
TERMINAL	RS485	TERMINAL	P2	Terminal blok konektor 3,5 mm	
BLOK 2		BLOK 2 TERMINAL		1	
TERMINAL	POWER	TERMINAL	P3	3 pinski terminal blok konektor	
BLOK 3 TERMINAL	CTRL	BLOK 3 TERMINAL	P4	Terminal blok konektor 3,5 mm	
BLOK 2	CIRL	BLOK 2	P4	Terminal blok konektor 3,5 mm	
HDR1X3	ICSP	Header 3	P5	Header, 3-Pin	
KONEKTOR	PWR_TRAFO	KONEKTOR 2	P6	Razdvojivi konetor 2 pina	
2 PINA		PINA			
HDR1X2	NTC10K	Header 2	P7, P9 P8	Header, 2-Pin	
KONEKTOR 2 PINA	HEAT_TRAFO	KONEKTOR 2 PINA	ro .	Razdvojivi konetor 2 pina	
SOT23 N	MMRT2222A	BC817	01	NPN General-purpose Transistor	
SOT23_N	BC807	BC807	Q2, Q3	PNP General-purpose Transistor	
ERA-0603	1K	ERAV, ERA6Y, ERAV, ERA6Y, ERAV, ERAV,	R1, R13, R22, R32, R33, R36, R39	Metal Film Thermosensitive Chip Resistor,	
		ERAV, ERA6Y,		0.56 Ohm to 10k Ohm Range 5%	
		ERAV, ERAV,		Tolerance, 0603 Size, 0.063 W, Rectangular Thick Film Chip Resistor, 10	
		ERAV		Rectangular Thick Film Chip Resistor, 10	
				Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W, Metal Film	
				Thermosensitive Chip Resistor, 0.56	
ERA-0603	3K9	ERAV	R2	Metal Film Thermosensitive Chip Resistor.	
				0.56 Ohm to 10k Ohm Range, 5%	
ERA-0603	39K	ERAV	R3, R12	Tolerance, 0603 Size, 0.063 W	
ERA-0603	39K	ERAV	R3, R12	Metal Film Thermosensitive Chip Resistor, 0.56 Ohm to 10k Ohm Range, 5%	
				Tolerance 0603 Size 0 063 W	
ERA-0805	18K	ERAS	R4, R5, R6, R8, R9, R10	Metal Film Thermosensitive Chip Resistor, 0.56 Ohm to 10k Ohm Range, 5%	
				0.56 Ohm to 10k Ohm Range, 5%	
				Tolerance, 0805 Size, 0.1 W Metal Film Thermosensitive Chip Resistor,	
ERA-0603	1K2	ERAV	R7	Metal Film Thermosensitive Chip Resistor, 0.56 Ohm to 10k Ohm Range, 5%	
				Tolerance, 0603 Size, 0.063 W	
ERA-0603	2K2	ERAV	R11	Metal Film Thermosensitive Chip Resistor,	
				0.56 Ohm to 10k Ohm Range, 5%	
				Tolerance, 0603 Size, 0.063 W	
ERA-0805	220R	ERAS	R14, R15, R16, R17	Metal Film Thermosensitive Chip Resistor,	
				0.56 Ohm to 10k Ohm Range, 5%	
ERA-0603	180R	ERAV	R18	Tolerance, 0805 Size, 0.1 W Metal Film Thermosensitive Chip Resistor,	
21010000	TOOK	2.01		0.56 Ohm to 10k Ohm Range, 5%	
				0.56 Ohm to 10k Ohm Range, 5% Tolerance, 0603 Size, 0.063 W	
1W100R	100R	1W100R	R19	Carbon F 1W resistor	
AXIAL-0.3	47R	Res1	R20	Resistor	
ERA-0603	10R	ERA6Y	R21	Rectangular Thick Film Chip Resistor, 10	
				Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	
ERA-0603	10K	ERA6Y.	R23. R26. R31. R35	Rectangular Thick Film Chip Resistor, 10	
	1	ERA6Y, ERAV,	., ., .,	Ohm to 1M Ohm Range, 0.1% and 0.5%	
		ERAV		Tolerance, 0805 Size, 0.1 W, Rectangular Thick Film Chip Resistor, 10 Ohm to 1M	
				Thick Film Chip Resistor, 10 Ohm to 1M	
	1	1		Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W, Metal Film	
				Thermosensitive Chip Resistor, 0.5	
ERA-0603	NF	ERA6Y	R24, R27, R28, R29	Rectangular Thick Film Chin Resistor 10	
	l			Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	
	1	1		Tolerance, 0805 Size, 0.1 W	
ERA-0603	100K	ERAV	R25	Metal Film Thermosensitive Chip Resistor,	
	1	1		0.56 Ohm to 10k Ohm Range, 5% Tolerance, 0603 Size, 0.063 W	
ERA-0603	4K7	ERA6Y	R30. R34. R38. R40	Rectangular Thick Film Chip Resistor 10	
	l			Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5%	
				Tolerance, 0805 Size, 0.1 W Metal Film Thermosensitive Chip Resistor,	
ERA-0603	33K	ERAV	R37	Metal Film Thermosensitive Chip Resistor,	
	1	1		0.56 Ohm to 10k Ohm Range, 5% Tolerance, 0603 Size, 0.063 W	
ERA-0603	3K3	ERAV	R41	Metal Film Thermosensitive Chin Resistor	
0.0000	I	I	Ī · · ·	Metal Film Thermosensitive Chip Resistor, 0.56 Ohm to 10k Ohm Range, 5%	
				Tolerance, 0603 Size, 0.063 W	
DIP-4	PC817	PC817	U1	4-Pin Phototransistor Optocoupler	
M08A_N	LM393MX	LM393MX	U2	Low Power Low Offset Voltage Dual	
D008_L	MAX485	SN75176BD	112	Comparator, 8-pin Narrow SOIC Differential Bus Transceiver	
DIP6	MAX485 MOC3052	SN75176BD MOC3081	U3	Zero-Cross Ontoisolator Triac Driver	
STM-	STM32F030F4P	STM32F030F4P	U5	Zero-Cross Optoisolator Triac Driver ARM Cortex-M0 32-bit MCU, 16 KB Flash,	
TSSOP20_N	6	6		4 KB Internal RAM, 15 I/Os, 20-pin	
_	l			4 KB Internal RAM, 15 I/Os, 20-pin TSSOP, -40 to 85 degC, Tube Positive Voltage Regulator, 5V, 3-Pin TO-	
TO220	L78M05CV	L78M05CV	U6	Positive Voltage Regulator, 5V, 3-Pin TO-	
ZZ311	REG1117-3.3	REG1117-3.3	117	220	
االكك	REG1117-3.3	REGITI7-3.3	,	800mA and 1A Low Dropout Positive Regulator 2.85V, 3.3V, 5V, and Adjustable	
	l			ragaillo 2.00v, 3.5v, 5v, and Adjustable	
				•	\vdash
Approved		Notes			
		1			
		1			
		l		1	