







Quantit	Value	Comment	Designator	Description	Footprint
1	value	60APU06	D1	Description	to-247ac horizontal
	M6	M6	J1, J2, J3, J4		Parafuso
	BYD7	IVIO	01, 02, 00, 04		1 diaiuso
1	7	BYD77	Ds1	1 Amp General Purpose Rectifier	DSO-C2/ X2.3
		ATmega32		8-bit AVR Microcontroller, 32KB Flash, 1KB EEPROM, 2KB SRAM, 28-pin PDIP, Industrial	
1		8P	U6	Grade (-40°C to 85°C)	DIP28-300(100)
1	15nF	15nF	Cs1	Capacitor	100nF
			C2, C4, C5, C6, C7, C11, C15,		
15	100nF	100nF	C18, C19, C20, C22, C23, C26, C27, C30	Capacitor	0805C
2	1nF	1nF	C1, C3	Capacitor	0805C
2	47p	47p	C10, C14	Capacitor	0805C
	22pF	22pF	C24, C25, C28, C29	Capacitor	0805C
	330p	330p	C8, C9, C12, C13	Capacitor	0805C
		4.7uF	Co1, Co2, Co3, Co4	Capacitor	CAP4U7 EPCOS
	4.7uF	Сар	Ci1, Ci2, Ci3, Ci4	Capacitor	cap4u7
		Сар	Cc1, Cc2, Cc3, Cc4, Cc5, Cc6	Capacitor	CAP4U7 EPCOS
2	0.00.	16MHz	Y1. Y2	Crystal	HC49-US-THT
_		LTSP 25-	,		
1		NP Driver	U1	Current Transducer LTSP (25 A)	LTSP 25-NP
1	250m	(INEP)	P1	Driver INEP (Soeiro)	Driver INEP
1	250m A	250mA	F2	Fuse	Porta Fusivel
1	15A	15A	F1	Fuse 5x20	Porta Fusivel
1		Heatsink	HS1	Generic Antenna	HS10425
1		USART	P2	Header, 5-Pin	HDR1X5
1		IRFP4321	Q1	HEXFET Power MOSFET	to-247ac_horizontal
		MCD2EE1		High-Speed CAN Transceiver,	
1		MCP2551- I/SN	U9	1 Mb/s, 4.5 to 5.5 V, 8-Pin SOIC (SN), Industrial Temperature, RoHS, Tube	SOIC08-150(50)
1	150uH	Inductor	Li1	Inductor	NEE-42-20-DEITADO
1	300uH	Inductor	Lo1	Inductor	NEE-42-20-DEITADO
1	?H	?H	L1	Inductor	0805L
	GREE				
1	N	GREEN	LD1	LED	LED3MM
3	D 01 /0	LP324M	U2, U3, U4	Micropower Quad Operational Amplifier	SOIC14-150(50)
1	BCV2 7	BCV27	Q2	NPN Darlington Bipolar Transistor	SOT95P240-3N
1		LM7805	U7	Positive-Voltage Regulator	TO220_deitado
1		LM7812	U5	Positive-Voltage Regulator	TO220_deitado
1	120	120	R33	Resistor	0805R
	1R	1R	Rs1	Resistor	AXIAL-0.3
1	22k	22k	R3	Resistor	0805R
1	470	470	R30	Resistor	AXIAL-0.3
1	470k	470k	R1	Resistor	0805R
1	47k	47k	R2	Resistor	0805R
1	560k	560k	R4	Resistor	0805R
2	100R	100R	R6, R7	Resistor	0805R
			R9, R10, R11, R12, R13, R14,		
			R15, R16, R17, R18, R19, R20,		
21	100k	100k	R21, R22, R23, R24, R25, R26, R27, R28, R29	Resistor	0805R
	10k	10k	R5, R8, R31, R32, R34	Resistor	0805R
				Solid Aluminum Capacitor with Organic	
1	10 uF	CapacitorP ol	C17	Semiconductor Electrolyte: 100uF, 10V, Bulk Pack	cap10uF16V
				Solid Aluminum Capacitor with Organic	<u> </u>
4	100 uF	CapacitorP	C16	Semiconductor Electrolyte: 100uF, 10V, Bulk Pack	cap10uF16V
-	ur	ol	0.0	Solid Aluminum Capacitor with Organic	Capitouriov
	46.5	CapacitorP	004	Semiconductor Electrolyte: 100uF, 10V, Bulk	405401/
1	10uF	ol	C21	Pack Stand-Alone CAN Controller With SPI	cap10uF16V
		MCP2515-		Interface, 18-Pin SOIC, Extended	
1		E/SO	U8	Temperature	WSO18_L
1	KRE 2	KRE 2	P3	Teminal Block 1x2	KRE_2
	YH-59-	RJ45			
	01	(canbus)	J5, J6	YH-59-01	ASSMANN A-2004-2-4-LP/FS
1	MMSZ:	MMSZ5230	D2	Zener smd 3.9V	DSO-C2/ X3.3











