Refs	Value
C14;C12;C13	.33u
C2	0
C3	180p
C18	18p
C4	2200p
C5	6.8u
C1	1000u
C6	470u
	NP
C8;C7	
C11;C10;C16;C17;C9;C15	
D1;D3;D2;D6;D8;D4;D5	1N4148
D7	D_Small
U3	LM393
U1;U2;U4	LM741
P8;P9	CONN_01X01
J10	TP1
J11	TP2
J12	TP3
J2	TP5
J1	TP6
J3	TP7
P5	CONN_01X02
P4;P7	CONN_01X03
P3	CONN_01X04
RV1;RV2	10K
RV3	50K
U7	LM7805CT
U8	LM7812CT
U9	LM7912CT
R29;R28	1K
R2;R7;R21	0
R19	0,1
R17	1
R26	100K
R20;R22	10K
R9;R13;R23	1K
R4	1K2
R6	1M5
R8;R10	2,5K
R12	21,5
R2	2K
R16	390
R24	4,64K
R3	50
R18	500K
R11	50K
R5	5K
R15	6,81K
R27	900K
R25	NP
R14	R
L1	0
L	lo l

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Q1	Q_NMOS_GDS
Q2	Q_PNP_EBC
P1	LOAD_POWER_01X02
P2	CONN_01X03
P6	LOGIC POWER 01X03

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Capacitors ThroughHole: C Disc D3 P2.5 1 Capacitors ThroughHole: C Radial D14 L31.5 P5 1 Capacitors ThroughHole: C Radial D8 L21 P3.8 6 Diodes ThroughHole: Dode D0-41 SOD81 Vertical AnodeUp 7 Diodes ThroughHole: Diode D0-41 SOD81 Vertical AnodeUp 7 Diodes ThroughHole: Diode D0-41 SOD81 Vertical AnodeUp 1 Housings DIP: DIP-B W7.62mm LongPads 3 Housings DIP: DIP-B W7.62mm LongPads 1 Housings DIP: DIP-B W7.62mm LongPads 3 Housings DIP: DIP-B W7.62mm LongPads 3 <	Footprint	QTY	MFR	MPN	SPR	SPN
Capacitors ThroughHole: C_Disc_D3 P2.5 1 Capacitors ThroughHole: C_Radial_D14_L31.5_P5 1 Capacitors ThroughHole: C_Radial_D14_L31.5_P5 1 Capacitors ThroughHole: C_Radial_D14_L31.5_P5 1 Capacitors ThroughHole: C_Radial_D14_L21.5_P5 2 Capacitors ThroughHole: C_Radial_D18_L21_P3.8 6 Diodes_ThroughHole: Diode_D0-41_SOD81_Vertical_AnodeUp_T 7 Diodes_ThroughHole: Diode_D0-41_SOD81_Vertical_AnodeUp_T 1 Housings_DIP:DIP-8_W7.62rm_LongPads 1 Housings_DIP:DIP-8_W7.62rm_LongPads 1 Housings_DIP:DIP-8_W7.62rm_LongPads 3 Pin_Headers:Pin_Header_Straight_1x01 2 Pin_Headers:Pin_Header_Straight_1x01 1 Pin_Headers:Pin_Header_Straight_1x01 1 Pin_Headers:Pin_Header_Straight_1x01 1 Pin_Headers:Pin_Header_Straight_1x02 1 Pin_Headers:Pin_Header_Straight_1x03 2 Pin_Headers:Pin_Header_Straight_1x03 2 P	Capacitors_ThroughHole:C_Disc_D3_P2.5	3				
Capacitors ThroughHole C. Disc. D3 P2.5 1 Capacitors ThroughHole C. Disc. D3 P2.5 1 Capacitors ThroughHole C. Disc. D3 P2.5 1 Capacitors ThroughHole C. Radial D14 L31.5 P5 1 Capacitors ThroughHole C. Radial D14 L31.5 P5 1 Capacitors ThroughHole C. Radial D7.5 L11.2 P2.5 2 Capacitors ThroughHole C. Radial D8 L21 P3.8 6 Diodes ThroughHole: Dodd D0-41 SOD81 Vertical AnodeUp T 7 Diodes ThroughHole: Diode D0-41 SOD81 Vertical AnodeUp T 1 Housings DIP: DIP-8 W7.62mm LongPads 1 Housings DIP: DIP-8 W7.62mm LongPads 1 Housings DIP: DIP-8 W7.62mm LongPads 3 Pin Headers: Pin Header Straight 1x01 2 Pin Headers: Pin Header Straight 1x01 1 Pin Headers: Pin Header Straight 1x01 1 Pin Headers: Pin Header Straight 1x01 1 Pin Headers: Pin Header Straight 1x02 1 Pin Headers: Pin Header Straight 1x02 1 Pin Headers: Pin Header Straight 1x03 2 Pin Headers: Pin Header Straight 1x03 2 Pin Headers: Pin Header Straight 1x03 2	Capacitors_ThroughHole:C_Disc_D3_P2.5	1				
Capacitors ThroughHole:C Disc D3 P2.5 1 Capacitors ThroughHole:C Disc D3 P2.5 1 Capacitors ThroughHole:C Radial D14 L31.5 P5 1 Capacitors ThroughHole:C Radial D14 L31.5 P5 1 Capacitors ThroughHole:C Radial D14 L31.5 P5 1 Capacitors ThroughHole:C Radial D7.5 L11.2 P2.5 2 Capacitors ThroughHole:C Radial D8 L21 P3.8 6 Diodes ThroughHole:Diode D0-41 SOD81 Vertical AnodeUp 7 Diodes ThroughHole:Diode D0-41 SOD81 Vertical AnodeUp 7 Diodes ThroughHole:Diode D0-41 SOD81 Vertical AnodeUp 1 Housings DIP:DIP-8 W7.62mm LongPads 1 Housings DIP:DIP-8 W7.62mm LongPads 3 Pin Headers:Pin Header Straight 1x01 2 Pin Headers:Pin Header Straight 1x01 1 Pin Headers:Pin Header Straight 1x02 1 Pin Headers:Pin Header Straight 1x03 2 Pin Headers:Pin Header Straight 1x04 1 Potentiometers:Potentiometer Trimmer-Piher-PT15-h5 vertical 2 Potentiometers:Potentiometer Trimmer-Piher-PT15-h5 vertical 2 Power Integrations:TO-220 1 Resistors ThroughHole:Resistor Horizontal RM10mm 1 Resistors ThroughHole:Resis	Capacitors_ThroughHole:C_Disc_D3_P2.5	1				
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Capacitors ThroughHole: C. Radial D14 L31.5 P5 1 Capacitors ThroughHole: C. Radial D7.5 L11.2 P2.5 1 Capacitors ThroughHole: C. Radial D8 L21 P3.8 6 Diodes ThroughHole: D00-4D SOD81 Vertical AnodeUp 7 Diodes ThroughHole: Diode D0-41 SOD81 Vertical AnodeUp 1 Housings DIP: DIP-8 W7.62mm LongPads 3 Pin Headers: Pin Header Straight Lx01 2 Pin Headers: Pin Header Straight Lx01 1 Pin Headers: Pin Header Straight Lx02 1 Pin Headers: Pin Header Straight Lx02 1 Pin Headers: Pin Header Straight Lx03 2 Pin Headers: Pin Header Straight Lx04 1 Potentiometers: Potentiometer Trimmer-Piher-PT15-h5, vertical 2 Power_Integrations: T0-220 1 Power_Integrations: T0-220 1 Resistors Thro	Capacitors_ThroughHole:C_Disc_D3_P2.5	1				
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Capacitors ThroughHole:C_Radial_D8_L21_P3.8 6 Diodes ThroughHole:Diode DO-41_SOD81_Vertical_AnodeUp 7 Diodes ThroughHole:Diode DO-41_SOD81_Vertical_AnodeUp 1 Housings_DIP:DIP-8_W7.62mm_LongPads 1 Housings_DIP:DIP-8_W7.62mm_LongPads 3 Plin_Headers:Pin_Header_Straight_1x01 2 Pin_Headers:Pin_Header_Straight_1x01 1 Pin_Headers:Pin_Header_Straight_1x02 1 Pin_Headers:Pin_Header_Straight_1x02 1 Pin_Headers:Pin_Header_Straight_1x03 2 Pin_Headers:Pin_Header_Straight_1x03 2 Pin_Headers:Pin_Header_Straight_1x04 1 Potentiometers:Potentiometer_Trimmer-Piher-PT15-h5_vertical 2 Potentiometers:Potentiometer_Trimmer-Piher-PT15-h5_vertical 2 Potentiometers:Potentiometer_Trimmer-Piher-PT15-h5_vertical 1 Power_Integrations:TO-220 1 Power_Integrations:To	Capacitors_ThroughHole:C_Radial_D14_L31.5_P5	1				
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Diodes ThroughHole:Diode DO-41 SOD81 Vertical AnodeUp 1 Housings DIP:DIP-8 W7.62mm LongPads 1 Housings DIP:DIP-8 W7.62mm LongPads 3 Pin Headers:Pin Header Straight 1x01 2 Pin Headers:Pin Header Straight 1x01 1 Pin Headers:Pin Header Straight 1x02 1 Pin Headers:Pin Header Straight 1x02 1 Pin Headers:Pin Header Straight 1x03 2 Pin Headers:Pin Header Straight 1x03 2 Pin Headers:Pin Header Straight 1x04 1 Potentiometers:Potentiometer Trimmer-Piher-PT15-h5_vertical 2 Potentiometers:Potentiometer Trimmer-Piher-PT15-h5_vertical 1 Power Integrations:TO-220 1 Resistors ThroughHole:Resistor Horizontal RM10mm 3 Resistors ThroughHole:Resistor Horizontal RM10mm 1 Resist	Capacitors_ThroughHole:C_Radial_D8_L21_P3.8					
Housings_DIP:DIP-8_W7.62mm_LongPads 1 Housings_DIP:DIP-8_W7.62mm_LongPads 3 Pin_Headers:Pin_Header_Straight_1x01 2 Pin_Headers:Pin_Header_Straight_1x01 1 Pin_Headers:Pin_Header_Straight_1x02 1 Pin_Headers:Pin_Header_Straight_1x03 2 Pin_Headers:Pin_Header_Straight_1x03 2 Pin_Headers:Pin_Header_Straight_1x03 2 Pin_Headers:Pin_Header_Straight_1x04 1 Potentiometers:Potentiometer_Trimmer-Piher-PT15-h5_vertical 2 Potentiometers:Potentiometer_Trimmer-Piher-PT15-h5_vertical 1 Power_Integrations:TO-220 1 Power_Integrations:TO-220 1 Power_Integrations:TO-220 1 Power_Integrations:TO-220 1 Resistors_SMD:R_1210_HandSoldering 2 Resistors_SMD:R_1210_HandSoldering 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 3 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resi		7				
Housings_DIP:DIP-8_W7.62mm_LongPads 3 Pin Headers:Pin Header Straight 1x01 2 Pin Headers:Pin Header Straight 1x01 1 Pin Headers:Pin Header Straight 1x02 1 Pin Headers:Pin Header Straight 1x02 1 Pin Headers:Pin Header Straight 1x03 2 Pin Headers:Pin Header Straight 1x04 1 Potentiometers:Potentiometer Trimmer-Piher-PT15-h5_vertical 2 Potentiometers:Potentiometer_Trimmer-Piher-PT15-h5_vertical 2 Potentiometers:Potentiometer_Trimmer-Piher-PT15-h5_vertical 1 Power_Integrations:TO-220 1 Power_Integrations:TO-220 1 Power_Integrations:TO-220 1 Power_Integrations:TO-220 1 Power_Integrations:TO-220 1 Power_Integrations:TO-220 1 Resistors_SMD:R_1210 HandSoldering 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 3 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Diodes_ThroughHole:Diode_DO-41_SOD81_Vertical_AnodeUp	1				
Pin Headers:Pin Header Straight 1x01	Housings_DIP:DIP-8_W7.62mm_LongPads					
Pin_Headers:Pin_Header_Straight_1x01	Housings_DIP:DIP-8_W7.62mm_LongPads					
Pin_Headers:Pin_Header_Straight_1x01	Pin_Headers:Pin_Header_Straight_1x01	2				
Pin_Headers:Pin_Header_Straight_1x01	Pin_Headers:Pin_Header_Straight_1x01	1				
Pin_Headers:Pin_Header_Straight_1x01	Pin_Headers:Pin_Header_Straight_1x01	1				
Pin_Headers:Pin_Header_Straight_1x01	Pin_Headers:Pin_Header_Straight_1x01	1				
Pin_Headers:Pin_Header_Straight_1x02	Pin_Headers:Pin_Header_Straight_1x01	1				
Pin_Headers:Pin_Header_Straight_1x02	Pin_Headers:Pin_Header_Straight_1x01	1				
Pin_Headers:Pin_Header_Straight_1x03	Pin_Headers:Pin_Header_Straight_1x01	1				
Pin_Headers:Pin_Header_Straight_1x04	Pin_Headers:Pin_Header_Straight_1x02	1				
Potentiometers:Potentiometer_Trimmer-Piher-PT15-h5_vertical 2 Potentiometers:Potentiometer_Trimmer-Piher-PT15-h5_vertical 1 Power_Integrations:TO-220 Power_Integrations:TO-220 Power_Integrations:TO-220 Resistors_SMD:R_1210_HandSoldering 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 3 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 3 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Pin_Headers:Pin_Header_Straight_1x03	2				
Potentiometers:Potentiometer_Trimmer-Piher-PT15-h5_vertical 1 Power_Integrations:TO-220 1 Power_Integrations:TO-220 1 Power_Integrations:TO-220 1 Power_Integrations:TO-220 1 Resistors_SMD:R_1210_HandSoldering 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 3 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 3 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Pin_Headers:Pin_Header_Straight_1x04	1				
Power_Integrations:TO-220 Power_Integrations:TO-220 Power_Integrations:TO-220 Power_Integrations:TO-220 Resistors_SMD:R_1210_HandSoldering Resistors_ThroughHole:Resistor_Horizontal_RM10mm Resistors_ThroughHole:Resistor_Horizontal_RM1	Potentiometers:Potentiometer_Trimmer-Piher-PT15-h5_vertical	2				
Power_Integrations:TO-220 Power_Integrations:TO-220 Resistors_SMD:R_1210_HandSoldering Resistors_ThroughHole:Resistor_Horizontal_RM10mm Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 3 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Potentiometers:Potentiometer_Trimmer-Piher-PT15-h5_vertical	1				
Power_Integrations:TO-220 Resistors_SMD:R_1210_HandSoldering Resistors_ThroughHole:Resistor_Horizontal_RM10mm 3 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 3 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Power_Integrations:TO-220	1				
Resistors_SMD:R_1210_HandSoldering Resistors_ThroughHole:Resistor_Horizontal_RM10mm Resistors_	Power_Integrations:TO-220	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm	Power_Integrations:TO-220	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 3 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_SMD:R_1210_HandSoldering	2				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	3				
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Resistors_ThroughHole:Resistor_Horizontal_RM10mm 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 3 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm					
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	3				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 2 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	2				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1 Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1	Resistors_ThroughHole:Resistor_Horizontal_RM10mm	1				
Resistors_ThroughHole:Resistor_Horizontal_RM10mm 1		1				
		1				
	Resistors_ThroughHole:Resistor_Horizontal_RM7mm	1				

alimentatore

TO_SOT_Packages_THT:TO-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:To-220_Neutral123_Vertical_LargePackages_THT:T	1		
TO_SOT_Packages_THT:TO-92_Rugged	1		
w_conn_screw:mors_2p	1		
w_conn_screw:mors_3p	1		
w_conn_screw:mors_3p	1		