RM Costruzioni Elettroniche
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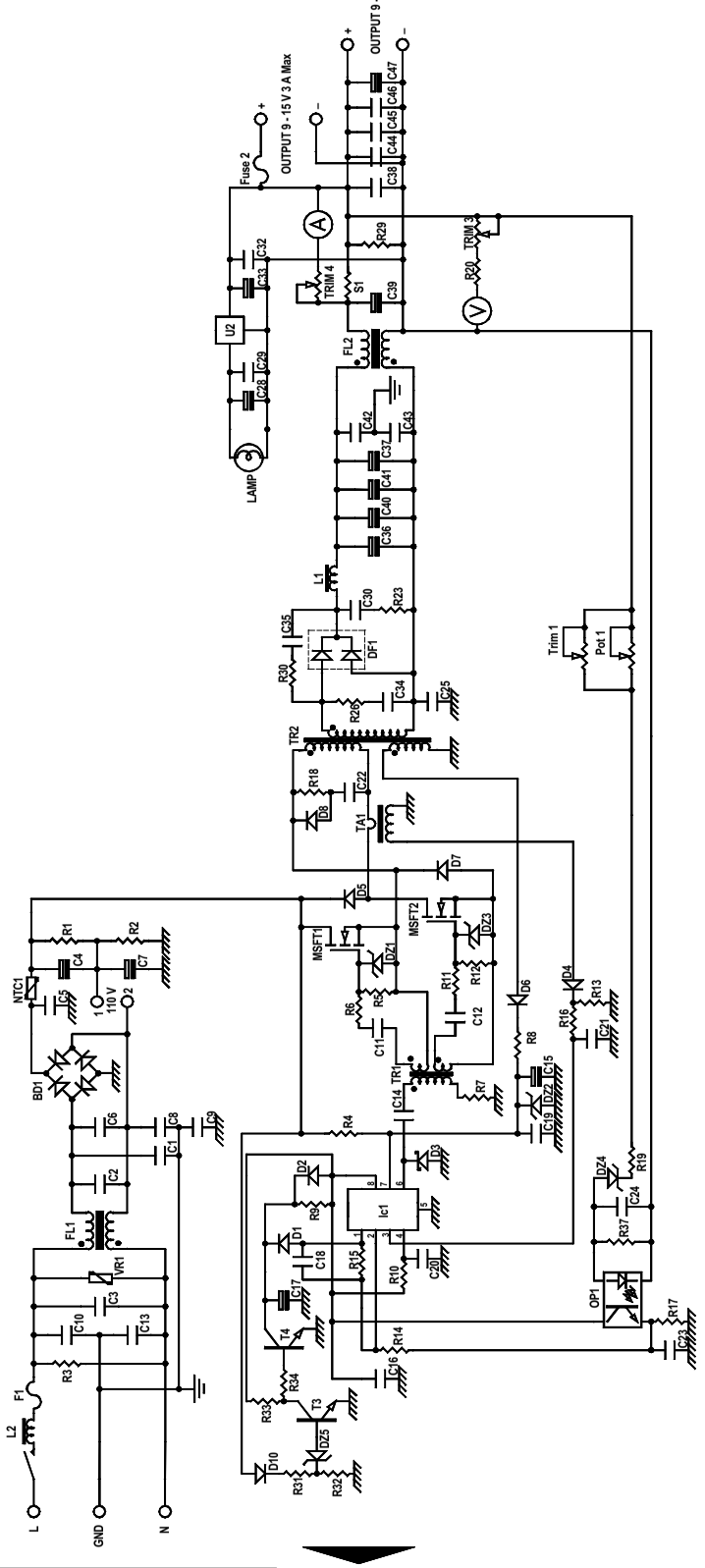
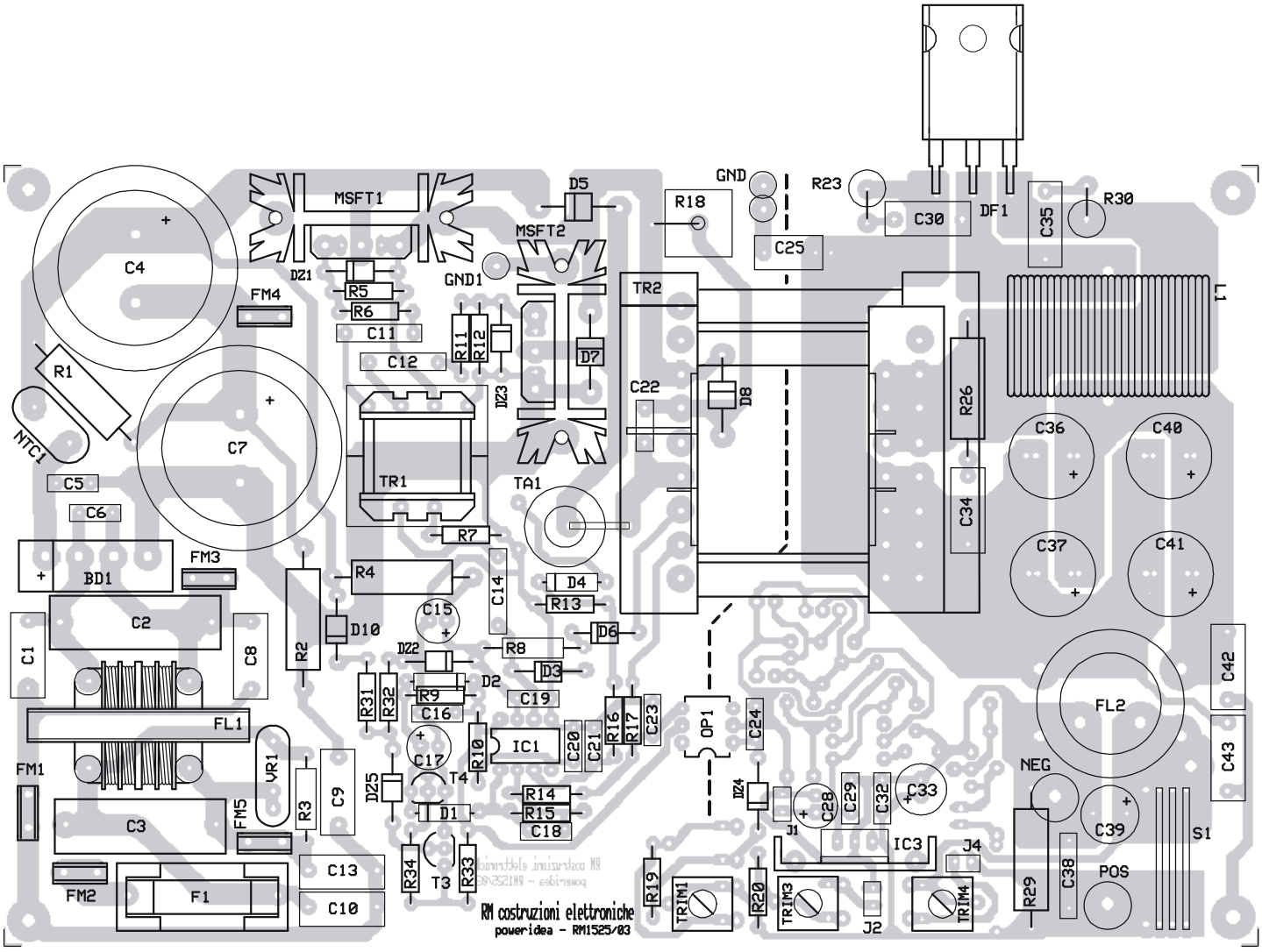
Mod. SPS 20-S Power supply

Schematic diagram

Version 2.00





List of components

C 1	=	2,2 nF	250 V~ Y		C 20	=	2,2 nF	63 V	Polyester
C 2	=	220 nF	275 V~ X2		C 21	=	470 pF	50 V	Ceramic
C 3	=	470 nF	275 V~ X2		C 22	=	1,0 nF	1000 V	Ceramic
C 4	=	470 µF	200 V		C 23	=	10 nF	63 V	Polyester
C 5	=	4,7 nF	1000 V	Ceramic	C 24	=	10 nF	63 V	Polyester
C 6	=	4,7 nF	1000 V	Ceramic	C 25	=	10 nF	630 V	Polyester
C 7	=	470 µF	200 V		C 28	=	10 µF	50 V	
C 8	=	2,2 nF	250 V~ Y		C 29	=	100 nF	63 V	Polyester
C 9	=	4,7 nF	250 V~ Y		C 30	=	2,2 nF	1000 V	Polyester
C 10	=	2,2 nF	250 V~ Y		C 32	=	100 nF	63 V	Polyester
C 11	=	220 nF	100 V	Polyester	C 33	=	100 µF	25 V	
C 12	=	220 nF	100 V	Polyester	C 34	=	2,2 nF	1000 V	Polyester
C 13	=	2,2 nF	250 V~ Y		C 35	=	10 nF	630 V	Polyester
C 14	=	1,0 µF	100 V	Polyester MKT	C 36	=	1000 µF	25 V	105°C
C 15	=	47 µF	50 V		C 37	=	1000 µF	25 V	105°C
C 16	=	100 nF	63 V	Polyester	C 38	=	1,0 µF	100 V	Polyester MKT
C 17	=	33 µF	25 V		C 39	=	470 µF	25 V	105°C
C 18	=	33 nF	63 V	Polyester	C 40	=	1000 µF	25 V	105°C
C 19	=	100 nF	63 V	Polyester	C 41	=	1000 µF	25 V	105°C
					C 42	=	1,0 µF	100 V	Polyester MKT

C 43	=	1,0 µF	100 V	Polyester MKT
C 44	=	1,0 nF	50 V	Ceramic
C 45	=	47 nF	50 V	Ceramic
C 46	=	1,0 µF	50 V	Multylayer
C 47	=	470 µF	35 V 105 °C	
R 1	=	56 KΩ	3 W	
R 2	=	56 KΩ	3 W	
R 3	=	470 KΩ	½ W	
R 4	=	100 KΩ	3 W	
R 5	=	1,0 KΩ	¼ W	
R 6	=	18 Ω	¼ W	
R 7	=	10 Ω	¼ W	
R 8	=	10 Ω	1 W	
R 9	=	220 KΩ	¼ W	
R 10	=	8,2 KΩ	¼ W	
R 11	=	18 Ω	¼ W	
R 12	=	1,0 KΩ	¼ W	
R 13	=	10 Ω	¼ W	
R 14	=	22 KΩ	¼ W	
R 15	=	680 KΩ	¼ W	
R 16	=	470 Ω	¼ W	
R 17	=	2,2 KΩ	¼ W	
R 18	=	15 KΩ	5 W	
R 19	=	180 Ω	¼ W	
R 20	=	100 KΩ	¼ W	
R 23	=	10 Ω	3 W	
R 26	=	10 Ω	2 W	
R 29	=	68 Ω	5 W	
R 30	=	10 Ω	3 W	
R 31	=	330 KΩ	¼ W	
R 32	=	27 KΩ	¼ W	
R 33	=	8,2 KΩ	¼ W	
R 34	=	1,0 KΩ	¼ W	
R 37	=	2,2 KΩ	¼ W	
NTC 1	=	4,7 Ω		
VR 1	=	275 Vac		
Trim 1	=	100 KΩ		
Trim 3	=	220 KΩ		
Trim 4	=	4,7 KΩ		
Pot 1	=	4,7 KΩ		
S 1	=	3 x Resistive wire ϕ 1,0 mm x 20 mm		
D 1	=	1N 4148		
D 2	=	1N 4148		
D3	=	BAT 49		
D4	=	1N 4148		
D 5	=	BYV 26 E/1000		
D 6	=	BYV 26 E/1000		
D 7	=	BYV 26 E/1000		
D 8	=	BYV 26 E/1000		
D 10	=	1N4007		

DF 1	=	BYW99P-200	
DZ 1	=	15 V 1,3 W	
DZ 2	=	20 V 1,3 W	
DZ 3	=	15 V 1,3 W	
DZ 4	=	7,5 V ½ W	
DZ 5	=	8,2 V 1,3 W	
BD 1	=	KBU 606	
T 3	=	BC 337-25	
T 4	=	BC 337-25	
MSFT 1	=	IRF 840	
MSFT 2	=	IRF 840	
Ic 1	=	UC 3844	
Ic 3	=	LM 7808 CV	
OP 1	=	4N25	
TA 1	=	Toroid 10-50/1	cod. RM10
TR 1	=	EF20/37/32/32	cod. RM20 orr.
TR 2	=	ETD 39-RM 1525	cod. RM39
FL 1	=	6,8 mH 4A	cod. RM30
FL 2	=	2 x 25 µH 30 A	cod. RML
L 1	=	60 µH 30 A	cod. RMTRI
L 2	=	20 mH	cod. RMIND
Fuse	=	Fast 3 A (220 V) 4 A (110 V)	