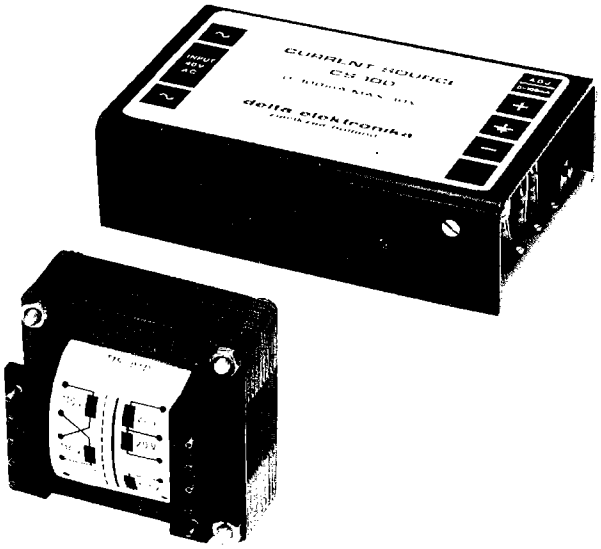
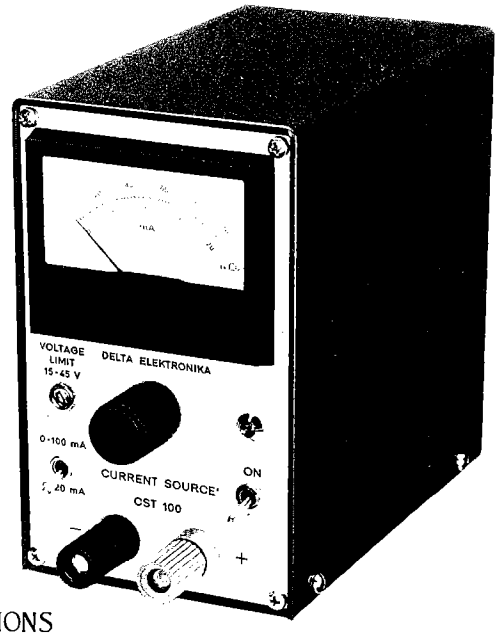
CS 100

DELTA ELEKTRONIKA BV

P.O. BOX 27
4300 AA ZIERIKZEE
NETHERLANDS
TEL. (01110)13656 TLX 55349

CONSTANT CURRENT SOURCES





CS 100 MODULE

Current range: 0-100 mA, max. 30 V
Open voltage limit 42 V

Input voltage: 40 V 50-400 Hz
Transformer : T 15-0.1D (110/220V)

CST 100 BENCH MODEL

Current ranges: 0- 20 mA, max 30 V
0-100 mA, max 30 V

Current control with ten turn potentiometer

Open voltage limit adjustable from 15 to 30 V

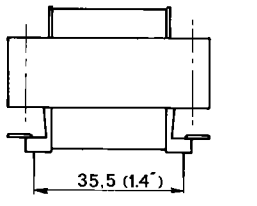
Input voltage: 110/220 V, 50-400 Hz

SPECIFICATIONS

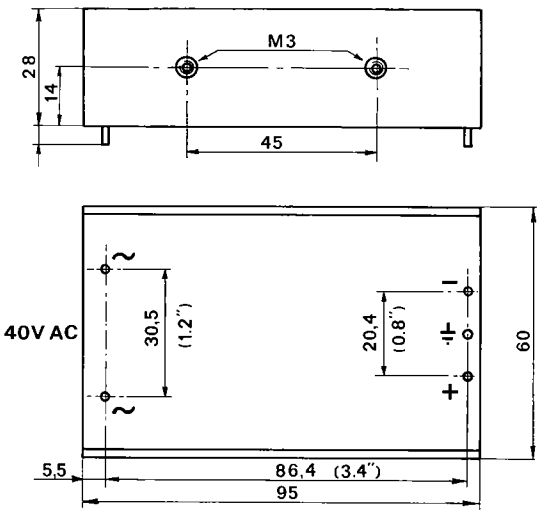
Current regulation	
+/- 10% input voltage change	1 µA
100% load change	1 µA
Ripple current, r.m.s./p-p	5/15 µA
Current temp. coeff., per °C	0.005 %
Stability per 8 hours, after 20 min	0.01 %
Recovery time, 0-100% load step	20 µS
Output impedance: 20 MOhm parallel 4 nF	
Max. ambient temp., full load	50°C

Dimensions and weight:

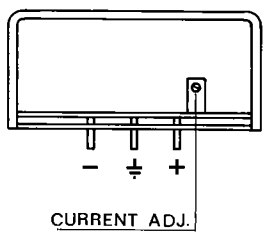
CST 100: 84 x 138 x 144 mm	1.4	kgs
CS 100 : 95 x 60 x 28 mm	0.13	kgs
Trafo : 48 x 48 x 37 mm	0.25	kgs

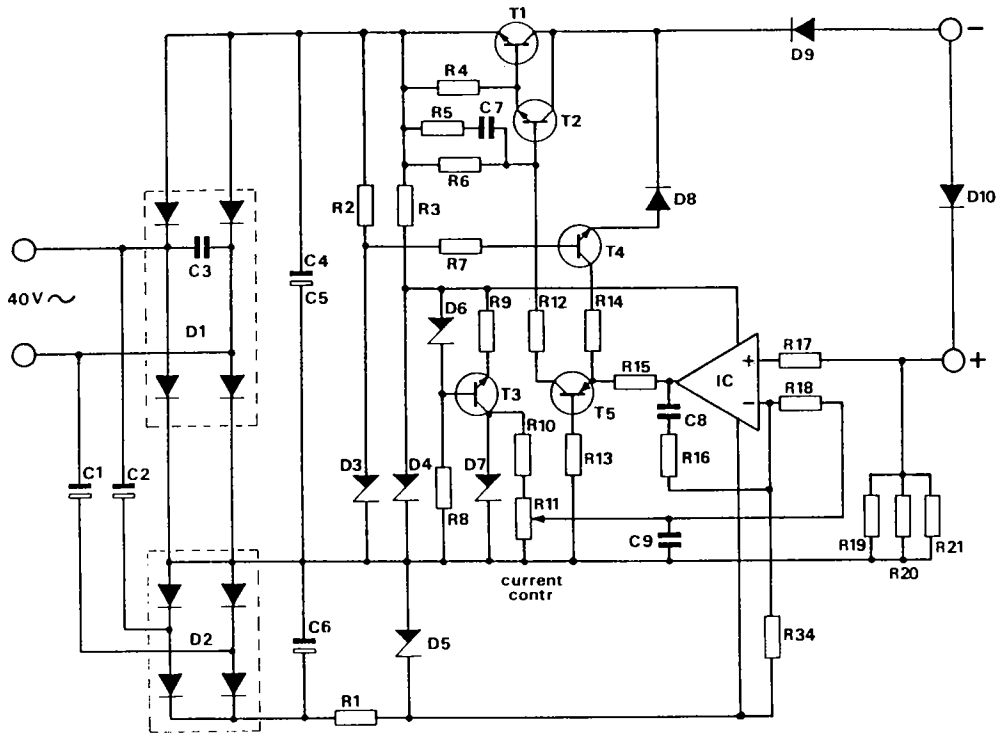


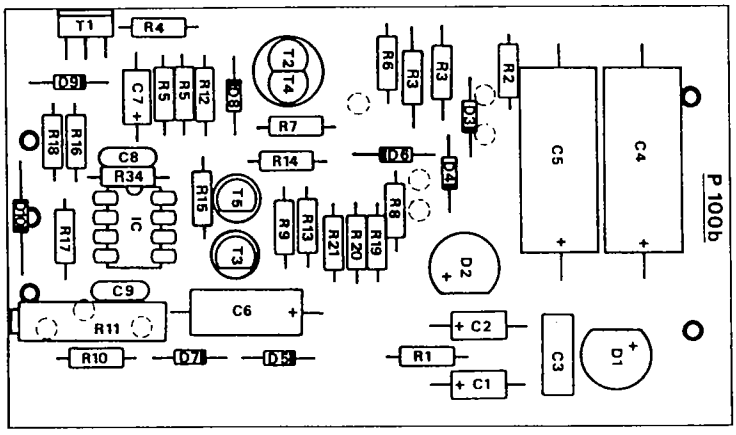
T 15-0.1D



CS 100







R (Ohm)

1	=	3,3 k
2	=	3,3 k
3	=	2x4,7 k PR 37
4	=	100
5	=	2x33
6	=	2,2 k
7	=	2,2 k
8	=	5,6 k
9	=	680
10	=	680
11	=	5 k 20 t. cermet potm.
12	=	2,2 k
13	=	2,2 k
14	=	2,2 k
15	=	1 k
16	=	1 k
17	=	1 k
18	=	1 k
19	=	150
20	=	150
21	=	150
34	=	CR

non specified resistors are MRS 25
MRS 25 = metal film. 0,4 W 1 %
PR 37 = metal film. 1,6 W 5 %

CR = Calibration resistor

T

1	= BD 239 A	TI
2	= BC 546A	Siemens
3	= BC 546A	Siemens
4	= BC 546A	Siemens
5	= BC 556A	Siemens

C (microfarad)

1	= 2,2	63 V
2	= 2,2	63 V
3	= 0,01	250 V
4	= 100	63 V
5	= 100	63 V
6	= 22	63 V
7	= 2,2	63 V
8	= 0,0022	160 V
9	= 0,1	100 V

D

1	= KB 10	Hermann
2	= KB 10	Hermann
3	= ZPY 43	ITT
4	= ZPY 13	ITT
5	= ZPY 13	ITT
6	= ZPD 5,6	ITT
7	= 1N825A	Thom.
8	= 1N4148	
9	= 1N4004G	Philips
10	= 1N4007	Trs.

IC

1 = TL 081 TI

			Title:	CS 100
P 100b (JC, R16, 34, C8, 9)	9-86	Vr	Date:	July '76
Modifications	Date	App.	delta elektronika bv	