

115V-400 CYCLE TRANSFORMERS

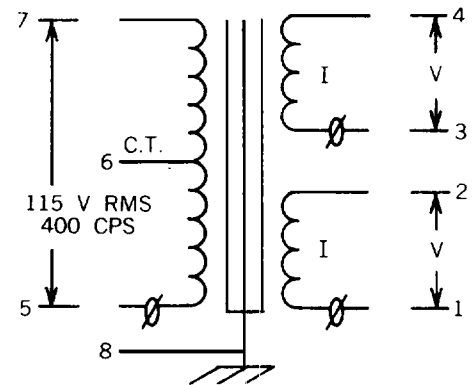
APPLICATION FEATURES

The RT SERIES Miniature Line of transformers are offered for use in 400 cycle power supply and control applications. They are also useful for inverter and converter applications in the popular 400 cycle to 2KC frequency range.

Each part has a nominal 115 Volt RMS center-tapped primary and two equal and separate step-down secondaries. The two secondaries may be connected in series to give twice the rated voltage (V) at rated current with a center-tap available.

Total power ratings are from 2.4 to 215 VA. All of these parts are available in any of the MCE Miniature Line package options (OA, OB, EA, CA etc.)

RT SERIES TRANSFORMERS SCHEMATIC DIAGRAM



SIZE 25

P=2.4VA		REG.=10%		RES. (5-7) = 285		I _x = 10	
ELECT. PART NO.	V-RMS VOLTS	I-RMS AMPS	TURNS RATIO	RESISTANCE 1-2 3-4			
25RT23	1.57	.765	.01513	.071	.086		
25RT26	3.15	.38	.03081	.276	.338		
25RT28	5	.24	.04811	.709	.865		
25RT29	6.3	.19	.06054	1.08	1.33		
25RT30	8	.15	.07730	1.75	2.13		
25RT31	10	.12	.09622	2.84	3.46		
25RT32	12.6	.095	.1211	4.45	5.45		
25RT33	16	.075	.1546	6.93	8.47		
25RT34	20	.060	.1924	11.5	13.9		
25RT35	25	.048	.2405	18.2	22.3		
25RT36	32	.038	.3092	28.7	35.1		
25RT37	40	.030	.3849	45	55		
25RT38	50	.024	.4811	71	87		
25RT39	64	.019	.6184	117	143		

SIZE 37

P=12.6VA		REG.=10%		RES. (5-7) = 50.3		I _x = 21	
ELECT. PART NO.	V-RMS VOLTS	I-RMS AMPS	TURNS RATIO	RESISTANCE 1-2 3-4			
37RT21	3.15	2	.03008	.058	.068		
37RT23	5	1.26	.04859	.140	.164		
37RT24	6.3	1	.06016	.223	.263		
37RT25	8	.788	.07636	.347	.409		
37RT26	10	.63	.09719	.57	.65		
37RT27	12.6	.5	.1203	.87	1.01		
37RT28	16	.394	.1527	1.40	1.64		
37RT29	20	.315	.1944	2.24	2.66		
37RT30	25	.252	.2430	3.5	4.2		
37RT31	32	.197	.3054	5.6	6.6		
37RT32	40	.157	.3887	9.0	10.5		
37RT33	50	.126	.4859	14.2	16.6		
37RT34	64	.0985	.6109	22.5	26.3		

SIZE 50

P=25VA		REG.=6.3%		RES. (5-7) = 16.4		I _x = 28	
ELECT. PART NO.	V-RMS VOLTS	I-RMS AMPS	TURNS RATIO	RESISTANCE 1-2 3-4			
50RT17	3.15	4	.02918	.020	.022		
50RT19	5	2.5	.04742	.050	.056		
50RT20	6.3	1.95	.05837	.072	.081		
50RT21	8	1.56	.07478	.118	.133		
50RT22	10	1.25	.09485	.183	.206		
50RT23	12.6	1	.1167	.279	.317		
50RT24	16	.78	.1496	.46	.52		
50RT25	20	.63	.1897	.72	.81		
50RT26	25	.5	.2371	1.15	1.31		
50RT27	32	.39	.2991	1.80	2.04		
50RT28	40	.31	.3794	2.92	3.30		
50RT29	50	.25	.4742	4.6	5.2		
50RT30	64	.195	.5983	7.27	8.23		

SIZE 62

P=50VA		REG.=4.3%		RES. (5-7) = 5.74		I _x = 39	
ELECT. PART NO.	V-RMS VOLTS	I-RMS AMPS	TURNS RATIO	RESISTANCE 1-2 3-4			
62RT16	5	5	.04518	.020	.021		
62RT17	6.3	4	.05723	.029	.031		
62RT18	8	3.1	.07530	.047	.050		
62RT19	10	2.5	.09036	.068	.073		
62RT20	12.6	2	.1144	.104	.114		
62RT21	16	1.6	.1506	.176	.192		
62RT22	20	1.25	.1807	.259	.282		
62RT23	25	1	.2259	.398	.434		
62RT24	32	.78	.3012	.68	.74		
62RT25	40	.63	.3614	1.02	1.11		
62RT26	50	.5	.4518	1.63	1.78		
62RT27	64	.4	.6024	2.73	2.96		

SIZE 75

P = 70VA REG. = 2.4% RES. (5-7) = 2.26 $I_K = 84$

ELECT. PART NO.	V-RMS VOLTS	I-RMS AMPS	TURNS RATIO	RESISTANCE	
				1-2	3-4
75RT16	10	3.5	.09008	.030	.033
75RT17	12.6	2.8	.1126	.044	.049
75RT18	16	2.2	.1441	.070	.078
75RT19	20	1.75	.1802	.106	.119
75RT20	25	1.4	.2252	.164	.182
75RT21	32	1.13	.2882	.265	.340
75RT22	40	.875	.3603	.410	.460
75RT23	50	.70	.4504	.640	.710
75RT24	64	.55	.5765	1.04	1.16

SIZE 87

P = 120VA REG. = 1.7% RES. (5-7) = .878 $I_K = 150$

ELECT. PART NO.	V-RMS VOLTS	I-RMS AMPS	TURNS RATIO	RESISTANCE	
				1-2	3-4
87RT16	20	3	.1818	.046	.049
87RT17	25	2.4	.2273	.069	.073
87RT18	32	1.9	.2857	.107	.114
87RT19	40	1.5	.3636	.167	.179
87RT20	50	1.2	.4545	.259	.276
87RT21	64	.95	.5714	.413	.452

SIZE 100

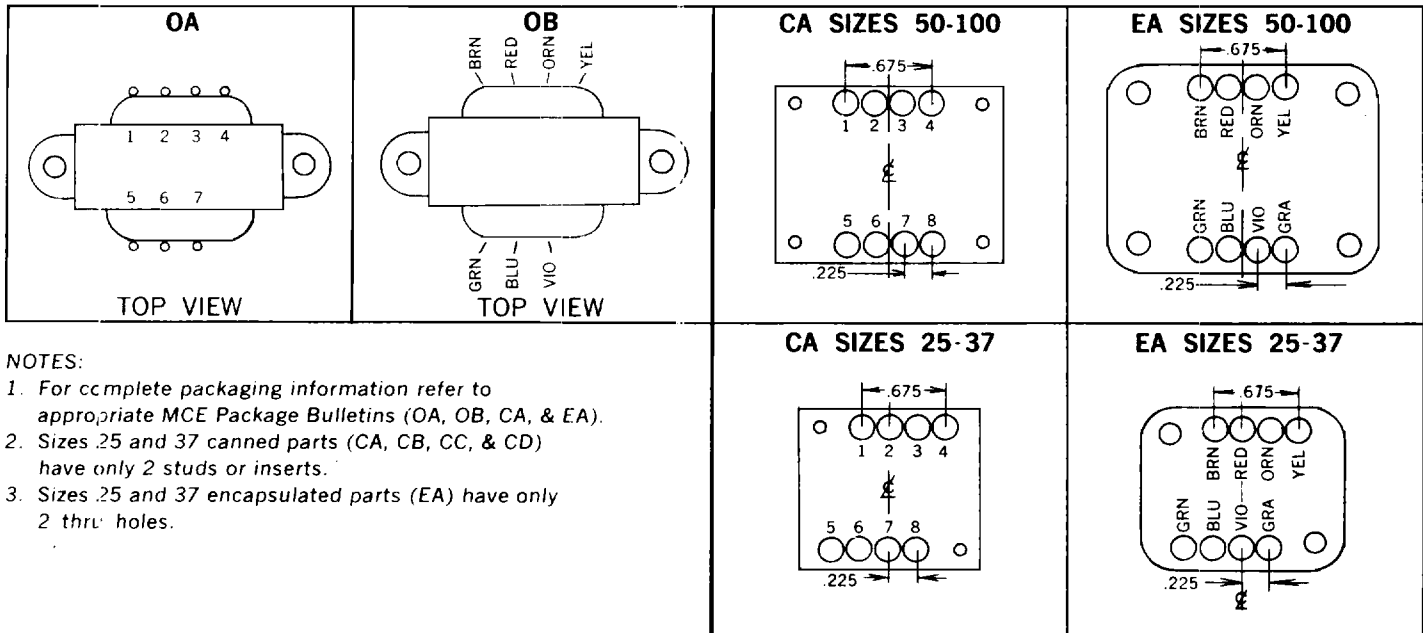
P = 215VA REG. = 1.6% RES. (5-7) = .474 $I_K = 230$

ELECT. PART NO.	V-RMS VOLTS	I-RMS AMPS	TURNS RATIO	RESISTANCE	
				1-2	3-4
100RT15	25	4.3	.2241	.041	.044
100RT16	32	3.5	.2845	.063	.066
100RT17	40	2.7	.3534	.094	.100
100RT18	50	2.15	.4483	.149	.157
100RT19	64	1.7	.5690	.234	.246

ADDITIONAL SPECIFICATIONS

1. Power (P) and secondary voltage (V) ratings are for both secondaries carrying rated current. They are also based upon a regulation of 10% or a temperature rise of 25°C above an ambient of 25°C.
2. Resistances are given in ohms with a tolerance of $\pm 20\%$.
3. The maximum primary exciting currents (I_K) are in ma AC AVERAGE.
4. The turn ratios are from total primary (5-7) to each secondary (1-2) or (3-4) and have a tolerance of $\pm 2\%$.
5. Dielectric withstanding voltage 500 V-RMS 60 CPS.
6. Insulation resistance ≥ 1000 megohms @ 500 V-DC.
7. All electrical data is at 20 $\pm 5^\circ\text{C}$.

TERMINAL/LEAD LOCATION



NOTES:

1. For complete packaging information refer to appropriate MCE Package Bulletins (OA, OB, CA, & EA).
2. Sizes 25 and 37 canned parts (CA, CB, CC, & CD) have only 2 studs or inserts.
3. Sizes 25 and 37 encapsulated parts (EA) have only 2 thru holes.