

## Standard Open & Encapsulated Toroidal Transformers

### Features

- Single 230V & Dual 2x115V, 50/60Hz Primary
- Lower Strayfield and high efficiency
- Small size and low weight
- Extremely low level of radiated magnetic field
- Very low induced noise (hum)
- Very low iron loss
- Supplied with mounting kit
- Test Voltage Primary - Secondary 4.5 KV
- 100% electrical and flash tested
- Manufactured in an ISO 9001:2008, ISO/TS 16949:2009 and ISO14001:2004 certified facility
- Fully RoHS & REACH Compliant



Power VA	Part Number	Secondary		
	Primary 230V	Full Load V	Current A	Open Circuit V
15	0015P1-2-006	2 x 6	1.25	2 x 7.0
	0015P1-2-009	2 x 9	0.83	2 x 10.5
	0015P1-2-012	2 x 12	0.63	2 x 14.0
	0015P1-2-015	2 x 15	0.50	2 x 17.4
	0015P1-2-018	2 x 18	0.42	2 x 21.1
30	0030P1-2-006	2 x 6	2.50	2 x 7.2
	0030P1-2-009	2 x 9	1.67	2 x 10.6
	0030P1-2-012	2 x 12	1.25	2 x 14.1
	0030P1-2-015	2 x 15	1.00	2 x 17.6
	0030P1-2-018	2 x 18	0.83	2 x 21.2
	0030P1-2-022	2 x 22	0.68	2 x 26.0
50	0050P1-2-006	2 x 6	4.17	2 x 6.8
	0050P1-2-009	2 x 9	2.78	2 x 10.2
	0050P1-2-012	2 x 12	2.08	2 x 13.6
	0050P1-2-015	2 x 15	1.67	2 x 17.1
	0050P1-2-018	2 x 18	1.39	2 x 20.4
	0050P1-2-022	2 x 22	1.14	2 x 24.9
	0050P1-2-055	2 x 55	0.45	2 x 62.4
80	0080P1-2-010	2 x 10	4.00	2 x 11.5
	0080P1-2-012	2 x 12	3.33	2 x 13.8
	0080P1-2-015	2 x 15	2.67	2 x 17.3
	0080P1-2-018	2 x 18	2.22	2 x 20.7
	0080P1-2-022	2 x 22	1.82	2 x 25.4
120	0120P1-2-012	2 x 12	5.00	2 x 13.4
	0120P1-2-015	2 x 15	4.00	2 x 16.8
	0120P1-2-018	2 x 18	3.33	2 x 20.2
	0120P1-2-022	2 x 22	2.73	2 x 24.5
	0120P1-2-055	2 x 55	1.03	2 x 61.3

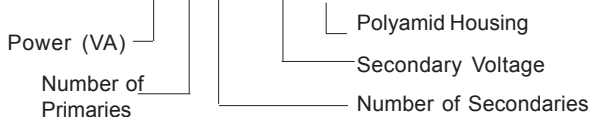
Power VA	Part Number	Secondary		
	Primary 230V	Full Load V	Current A	Open Circuit V
160	0160P1-2-012	2 x 12	6.67	2 x 13.5
	0160P1-2-015	2 x 15	5.33	2 x 16.6
	0160P1-2-018	2 x 18	4.44	2 x 20.0
	0160P1-2-022	2 x 22	3.64	2 x 24.5
	0160P1-2-030	2 x 30	2.67	2 x 33.5
	0160P1-2-055	2 x 55	1.45	2 x 61.2
225	0225P1-2-012	2 x 12	9.38	2 x 13.1
	0225P1-2-015	2 x 15	7.50	2 x 16.5
	0225P1-2-018	2 x 18	6.25	2 x 19.7
	0225P1-2-022	2 x 22	5.11	2 x 24.2
	0225P1-2-024	2 x 24	4.69	2 x 26.5
	0225P1-2-030	2 x 30	3.75	2 x 32.8
300	0300P1-2-012	2 x 12	12.5	2 x 13.1
	0300P1-2-018	2 x 18	8.33	2 x 19.4
	0300P1-2-022	2 x 22	6.82	2 x 23.8
	0300P1-2-025	2 x 25	6.00	2 x 27.1
	0300P1-2-030	2 x 30	5.00	2 x 32.5
	0300P1-2-035	2 x 35	4.29	2 x 37.8
	0300P1-2-055	2 x 55	2.73	2 x 59.6
500	0500P1-2-020	2 x 20	12.5	2 x 21.5
	0500P1-2-025	2 x 25	10.0	2 x 26.7
	0500P1-2-030	2 x 30	8.33	2 x 32.3
	0500P1-2-040	2 x 40	6.25	2 x 43.0
	0500P1-2-055	2 x 55	4.55	2 x 59.0
625	0625P1-2-018	2 x 18	17.4	2 x 19.3
	0625P1-2-022	2 x 22	14.2	2 x 23.5
	0625P1-2-040	2 x 40	7.81	2 x 42.8
	0625P1-2-045	2 x 45	6.94	2 x 48.3
	0625P1-2-050	2 x 50	6.25	2 x 53.8
	0625P1-2-055	2 x 55	5.68	2 x 58.9
0625P1-4-012	0625P1-4-012	4 x 12	13.00	4 x 12.9
	800	0800P1-2-040	2 x 40	10.00
0800P1-2-045		2 x 45	8.89	2 x 47.6
0800P1-2-050		2 x 50	8.00	2 x 52.9
0800P1-2-055		2 x 55	7.27	2 x 58.1
1000	1000P1-2-018	2 x 18	27.8	2 x 18.8
	1000P1-2-018	2 x 18	27.8	2 x 18.8
	1000P1-2-022	2 x 22	22.7	2 x 23.5
	1000P1-2-040	2 x 40	12.5	2 x 42.2
	1000P1-2-045	2 x 45	11.1	2 x 47.5
	1000P1-2-050	2 x 50	10.0	2 x 52.8
	1000P1-2-055	2 x 55	9.09	2 x 58.1
	1000P1-4-022	4 x 22	11.4	4 x 23.5
	1000P1-4-028	4 x 28	8.93	4 x 29.3

### Note:

Standard Encapsulated versions available from 15VA to 500VA  
See following page for dimensions and specifications

### Ordering Information

**Example:** 0030 P1 -2 -012 -K

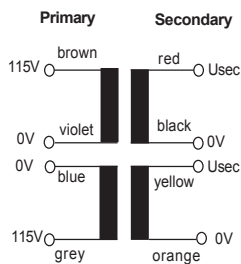


## Standard Open & Encapsulated Toroidal Transformers

Power VA	Part Number	Secondary		
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15	0015P2-2-006	2 x 6	1.25	2 x 7.0
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	0015P2-2-012	2 x 12	0.63	2 x 14.0
	0015P2-2-015	2 x 15	0.50	2 x 17.4
	0015P2-2-018	2 x 18	0.42	2 x 21.1
	30	0030P2-2-006	2 x 6	2.50
0030P2-2-009		2 x 9	1.67	2 x 10.6
0030P2-2-012		2 x 12	1.25	2 x 14.1
0030P2-2-015		2 x 15	1.00	2 x 17.6
0030P2-2-018		2 x 18	0.83	2 x 21.2
0030P2-2-022		2 x 22	0.68	2 x 26.0
50	0050P2-2-006	2 x 6	4.17	2 x 6.8
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	0050P2-2-018	2 x 18	1.39	2 x 20.4
	0050P1-2-022	2 x 22	1.14	2 x 24.9
	0050P2-2-055	2 x 55	0.45	2 x 62.4
	80	0080P2-2-010	2 x 10	4.00
0080P2-2-012		2 x 12	3.33	2 x 13.8
0080P2-2-015		2 x 15	2.67	2 x 17.3
0080P2-2-018		2 x 18	2.22	2 x 20.7
0080P2-2-022		2 x 22	1.82	2 x 25.4
120	0120P2-2-012	2 x 12	5.00	2 x 13.4
	0120P2-2-015	2 x 15	4.00	2 x 16.8
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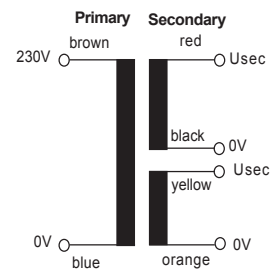
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	0225P2-2-022	2 x 22	5.11	2 x 24.2
	0225P2-2-024	2 x 24	4.69	2 x 26.5
	0225P2-2-030	2 x 30	3.75	2 x 32.8
300	0300P2-2-012	2 x 12	12.5	2 x 13.1
	0300P2-2-018	2 x 18	8.33	2 x 19.4
	0300P2-2-022	2 x 22	6.82	2 x 23.8
	0300P2-2-025	2 x 25	6.00	2 x 27.1
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	0300P2-2-035	2 x 35	4.29	2 x 37.8
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	500	0500P2-2-020	2 x 20	12.50
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625	0625P2-2-018	2 x 18	17.4	2 x 19.3
	0625P2-2-022	2 x 22	14.2	2 x 23.5
	0625P2-2-040	2 x 40	7.81	2 x 42.8
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	0625P2-2-055	2 x 55	5.68	2 x 58.9
800	0800P2-4-012	4 x 12	13.0	4 x 12.9
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	1000P2-2-055	2 x 55	9.09	2 x 58.1
	1000P2-4-022	4 x 22	11.4	4 x 23.5
	1000P2-4-028	4 x 28	8.93	4 x 29.3

### Schematic



Primary: 2 x 115V / 48 - 60Hz  
 Secondary: 2 or 4xUsec  
 for series or parallel connection for series or parallel connection

### Schematic



Primary: 230V / 48 - 60Hz  
 Secondary: 2 or 4xUsec  
 for series or parallel connection for series or parallel connection

## Standard Open & Encapsulated Toroidal Transformers



Nominal Power VA	Primary			Core Loss W	Copper Loss Typical		Dimensions and weight without Mounting Disks			Potted in Polyamid Housing		
	Full Load Current A	No Load Current mA	Copper Resistance T = 20°C Ohm		T = 20°C W	T = 120°C W	Ø mm	Height* mm	Weight kg	Ø mm	Height mm	Center Hole for Mounting Bolt Ø
15	0.08	2.0	178.0	0.21	1.8	2.5	60	31	0.3	63	34.5	5.1
30	0.15	2.8	92.0	0.26	3.6	5.0	70	32	0.5	73	39	5.1
50	0.25	5.0	42.0	0.43	4.7	6.6	80	35	0.7	87	42	5.1
80	0.40	5.6	27.0	0.51	8.4	11.0	92	36	1.0	97	44	6.1
120	0.53	8.5	15.5	0.76	9.9	13.9	92	45	1.3	104	52	6.1
160	0.79	10.0	10.5	0.97	11.9	20.8	104	44	1.6	115	53	6.1
225	1.08	14.0	6.6	1.30	15.2	21.3	112	48	2.1	126	52	6.1
300	1.41	17.0	4.2	1.70	16.1	22.5	115	58	2.5	126	65	6.1
500	2.32	23.0	1.83	2.50	22.1	31.0	135	60	3.9	147	65	8.2
625	2.90	28.0	1.50	3.10	27.9	39.0	140	70	4.6	--	--	--
800	3.71	33.1	1.30	3.65	28.9	41.2	162	60	5.1	--	--	--
1000	4.56	38.0	0.88	4.80	30.7	43.0	160	72	6.9	--	--	--

\* Allow an extra 3mm for mounting kit and 3-4mm to the dimensions where the leads emerge

**Material                      Temperature Class**

Copper (Pri. & Sec)        H (180°C)

Isolation between  
Primary & Secondary      B (130°C)

Lead isolation                A (105°C)

**Leads**

Primary    : Double insulated leads,  
                  150mm long, 10mm stripped

Secondary : PVC insulated,  
                  150mm long, 10mm tinned

**Approvals:**

Approved to EN61558 & IEC 61558  
DEKRA Nr. 2161054.01 for Safety Isolation Transformers  
DEKRA Nr. 2161054.02 for Isolation Transformers  
Marked with the ENEC KEMA-KEUR stamp of approval

Approved to UL 5085-1 (General Purpose Transformers)  
File XPTQ2.E215495 - USA  
File XPTQ8.E215495 - Canada

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