



**THE DATASHEET OF  
ST5-120B39**



# LAMINATED TRANSFORMERS

## Low Frequency, Open-Style Laminated, Split Bobbin, Horizontal Plug-In Series



**AGENCY APPROVALS** 

- UL, 506, File E73539
- UL 1446, File E179499
- UL 1585, File E169010

Class 2 Component Recognition

- CSA 22.2#66, File LR68051-2 
- UL Recognized Class B

- ⦿ High (2500V) isolation; 2500VRMS HIPOT
- ⦿ Non-concentric design - eliminates ESS
- ⦿ No crossover between primary/secondary winding leads
- ⦿ Vacuum impregnated - withstands board washing systems and reduces audible noise
- ⦿ Baked resin provides an environmentally-resistant finish
- ⦿ Rugged construction - no additional mounting hardware
- ⦿ Universal design, fits industry-standard footprints
- ⦿ Available in single or dual primary

### Mechanicals

### Schematics



### Dimensions (inches)

Size	VA	L	W	H	A	B	C	ML	Wt. (lb.)
2	1.1	1.13	1.13	0.94	0.25	0.25	1.20	----	0.17
3	2.4	1.38	1.13	1.19	0.25	0.25	1.20	----	0.25
4	6.0	1.63	1.31	1.31	0.25	0.35	1.28	1.06	0.44
5	12	1.86	1.56	1.44	0.30	0.40	1.41	1.25	0.70
6	20	2.25	1.86	1.44	0.30	0.40	1.60	1.50	0.80
7*	36	2.63	2.19	1.56	0.40	0.40	1.80	----	1.10

Part No. 115V-6Pin	Part No. 115/230V-8Pin	Secondary RMS Rating	
		Series	Parallel
ST2-10B41 <sup>1</sup>	DST2-10B41 <sup>1</sup>	10V C.T. @ 0.11A	5V @ 0.22A
ST3-10B1 <sup>1</sup>	DST3-10B1 <sup>1</sup>	10V C.T. @ 0.25A	5V @ 0.5A
ST4-10B2	DST4-10B2	10V C.T. @ 0.6A	5V @ 1.2A
ST5-10B3	DST5-10B3	10V C.T. @ 1.2A	5V @ 2.4A
ST6-10B4	DST6-10B4	10V C.T. @ 2A	5V @ 4A
ST7-10B51	DST7-10B51	10V C.T. @ 3.6A	5V @ 7.2A
ST2-12B42 <sup>1</sup>	DST2-12B42 <sup>1</sup>	12.6V C.T. @ 0.09A	6.3V @ 0.18A
ST3-12B5 <sup>1</sup>	DST3-12B5 <sup>1</sup>	12.6V C.T. @ 0.2A	6.3V @ 0.4A
ST4-12B6	DST4-12B6	12.6V C.T. @ 0.5A	6.3V @ 1.0A
ST5-12B7	DST5-12B7	12.6V C.T. @ 1.0A	6.3V @ 2.0A
ST6-12B8	DST6-12B8	12.6V C.T. @ 1.6A	6.3V @ 3.2A
ST7-12B52	DST7-12B52	12.6V C.T. @ 2.85A	6.3V @ 5.7A
ST2-16B43 <sup>1</sup>	DST2-16B43 <sup>1</sup>	16V C.T. @ 0.07A	8V @ 0.14A
ST3-16B9 <sup>1</sup>	DST3-16B9 <sup>1</sup>	16V C.T. @ 0.15A	8V @ 0.3A
ST4-16B10	DST4-16B10	16V C.T. @ 0.4A	8V @ 0.8A
ST5-16B11	DST5-16B11	16V C.T. @ 0.8A	8V @ 1.6A
ST6-16B12	DST6-16B12	16V C.T. @ 1.25A	8V @ 2.5A
ST7-16B53	DST7-16B53	16V C.T. @ 2.25A	8V @ 4.5A
ST2-20B44 <sup>1</sup>	DST2-20B44 <sup>1</sup>	20V C.T. @ 0.055A	10V @ 0.11A
ST3-20B13 <sup>1</sup>	DST3-20B13 <sup>1</sup>	20V C.T. @ 0.12A	10V @ 0.24A
ST4-20B14	DST4-20B14	20V C.T. @ 0.3A	10V @ 0.6A
ST5-20B15	DST5-20B15	20V C.T. @ 0.6A	10V @ 1.2A
ST6-20B16	DST6-20B16	20V C.T. @ 1A	10V @ 2A
ST7-20B54	DST7-20B54	20V C.T. @ 1.8A	10V @ 3.6A
ST2-24B45 <sup>1</sup>	DST2-24B45 <sup>1</sup>	24V C.T. @ 0.045A	12V @ 0.09A
ST3-24B17 <sup>1</sup>	DST3-24B17 <sup>1</sup>	24V C.T. @ 0.1A	12V @ 0.2A
ST4-24B18	DST4-24B18	24V C.T. @ 0.25A	12V @ 0.5A
ST5-24B19	DST5-24B19	24V C.T. @ 0.5A	12V @ 1.0A
ST6-24B20	DST6-24B20	24V C.T. @ 0.8A	12V @ 1.6A
ST7-24B55	DST7-24B55	24V C.T. @ 1.5A	12V @ 3.0A
ST2-28B46	DST2-28B46	28V C.T. @ 0.04A	14V @ 0.08A
ST3-28B21	DST3-28B21	28V C.T. @ 0.085A	14V @ 0.17A
ST4-28B22	DST4-28B22	28V C.T. @ 0.2A	14V @ 0.4A
ST5-28B23	DST5-28B23	28V C.T. @ 0.42A	14V @ 0.84A
ST6-28B24	DST6-28B24	28V C.T. @ 0.7A	14V @ 1.4A
ST7-28B56	DST7-28B56	28V C.T. @ 1.3A	14V @ 2.6A
ST2-36B47	DST2-36B47	36V C.T. @ 0.03A	18V @ 0.06A
ST3-36B25	DST3-36B25	36V C.T. @ 0.065A	18V @ 0.13A
ST4-36B26	DST4-36B26	36V C.T. @ 0.17A	18V @ 0.34A
ST5-36B27	DST5-36B27	36V C.T. @ 0.35A	18V @ 0.7A
ST6-36B28	DST6-36B28	36V C.T. @ 0.55A	18V @ 1.1A
ST7-36B57	DST7-36B57	36V C.T. @ 1.0A	18V @ 2.0A
ST2-48B48	DST2-48B48	48V C.T. @ 0.023A	24V @ .046A
ST3-48B29	DST3-48B29	48V C.T. @ 0.05A	24V @ 0.1A
ST4-48B30	DST4-48B30	48V C.T. @ 0.125A	24V @ 0.25A
ST5-48B31	DST5-48B31	48V C.T. @ 0.25A	24V @ 0.5A
ST6-48B32	DST6-48B32	48V C.T. @ 0.4A	24V @ 0.8A
ST7-48B58	DST7-48B58	48V C.T. @ 0.75A	24V @ 1.5A
ST2-56B49	DST2-56B49	56V C.T. @ 0.02A	28V @ 0.04A
ST3-56B33	DST3-56B33	56V C.T. @ 0.045A	28V @ 0.09A
ST4-56B34	DST4-56B34	56V C.T. @ 0.11A	28V @ 0.22A
ST5-56B35	DST5-56B35	56V C.T. @ 0.22A	28V @ 0.44A
ST6-56B36	DST6-56B36	56V C.T. @ 0.35A	28V @ 0.7A
ST7-56B59	DST7-56B59	56V C.T. @ 0.65A	28V @ 1.3A
ST2-120B50	DST2-120B50	120V C.T. @ 0.01A	60V @ 0.02A
ST3-120B37	DST3-120B37	120V C.T. @ 0.02A	60V @ 0.04A
ST4-120B38	DST4-120B38	120V C.T. @ 0.05A	60V @ 0.1A
ST5-120B39	DST5-120B39	120V C.T. @ 0.1A	60V @ 0.2A
ST6-120B40	DST6-120B40	120V C.T. @ 0.16A	60V @ 0.32A
ST7-120B60	DST7-120B60	120V C.T. @ 0.3A	60V @ 0.6A

<sup>1</sup> UL 1585 approved, Class 2 - Not Wet, Class 3 - Wet

\*Size 7 has 4 MTG. holes on 2.188" x 1.75" centers.

USA 858 674 8100 • Germany 49 7032 7806 0 • Singapore 65 6287 8998 • Shanghai 86 21 54643211 / 2 • China 86 769 85538070 • Taiwan 886 3 4641811

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