




THE DATASHEET OF
ST3-16B9



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 ¹ | DST2-10B41 ¹ | 10V C.T. @ 0.11A | 5V @ 0.22A |
| ST3-10B1 ¹ | DST3-10B1 ¹ | 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 ¹ | DST2-12B42 ¹ | 12.6V C.T. @ 0.09A | 6.3V @ 0.18A |
| ST3-12B5 ¹ | DST3-12B5 ¹ | 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 ¹ | DST2-16B43 ¹ | 16V C.T. @ 0.07A | 8V @ 0.14A |
| ST3-16B9 ¹ | DST3-16B9 ¹ | 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 ¹ | DST2-20B44 ¹ | 20V C.T. @ 0.055A | 10V @ 0.11A |
| ST3-20B13 ¹ | DST3-20B13 ¹ | 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 ¹ | DST2-24B45 ¹ | 24V C.T. @ 0.045A | 12V @ 0.09A |
| ST3-24B17 ¹ | DST3-24B17 ¹ | 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 |

¹ UL 1585 approved, Class 2 - Not Wet, Class 3 - Wet

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

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View ST3-16B9 on WIN SOURCE](#)

 [Pulse Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management