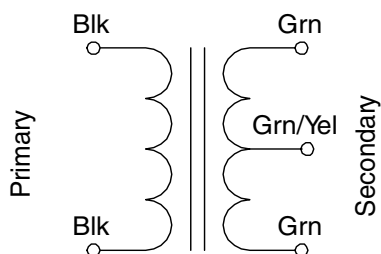


# HAMMOND MANUFACTURING™

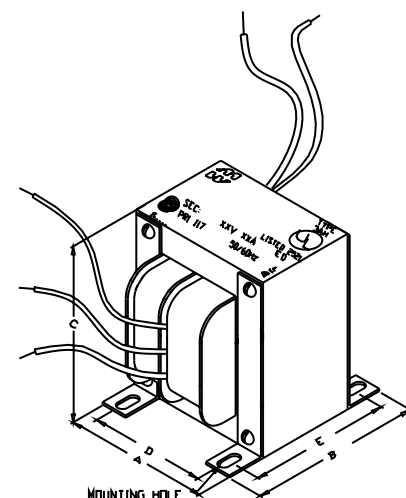
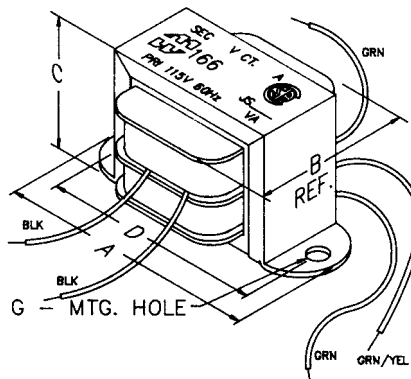
Transformer Schematic



## OPEN STYLE FILAMENT & L.V. RECTIFIER USE TRANSFORMERS

- Economical single primary 115 VAC, 60 Hz. or 117 VAC, 50/60 Hz. (see tables).
- All secondaries center tapped, VAC (RMS)
- Open style, channel bracket, two hole chassis mount.
- Minimum 6" long leads.
- Dual bobbin design - no electrostatic shield required.
- Class B insulation (130 degrees, C)
- Hi-Pot test of 2,000V RMS.
- UL Listed
- CSA Certified
- For more information on this series, go to:

<http://www.hammondmfg.com/166.htm>



Dimension Table

| Mtg. Style | Dimensions (Inches) |      |      |      |      | Mtg. Hole/Slot (Inches) |
|------------|---------------------|------|------|------|------|-------------------------|
|            | A                   | B    | C    | D    | E    |                         |
| B1H        | 3.44                | 2.98 | 4.13 | 2.75 | 2.38 | 0.203 x 0.375           |
| B2H        | 3.75                | 3.56 | 4.50 | 3.00 | 3.00 | 0.203 x 0.375           |
| C0H        | 1.35                | 0.69 | 0.69 | 1.06 | -    | 0.125                   |
| C1H        | 1.63                | 0.88 | 0.81 | 1.38 | -    | 0.125                   |
| C2H        | 2.06                | 1.25 | 1.19 | 1.75 | -    | 0.187                   |
| C3H        | 2.06                | 1.38 | 1.19 | 1.75 | -    | 0.187                   |
| C4H        | 2.38                | 1.38 | 1.38 | 2.00 | -    | 0.187                   |
| C5H        | 2.38                | 1.50 | 1.38 | 2.00 | -    | 0.187                   |
| C6H        | 2.81                | 1.50 | 1.69 | 2.38 | -    | 0.187                   |
| C7H        | 2.81                | 1.63 | 1.69 | 2.38 | -    | 0.187                   |
| C8H        | 3.25                | 1.63 | 2.00 | 2.81 | -    | 0.187                   |
| C9H        | 3.25                | 1.75 | 2.00 | 2.81 | -    | 0.187                   |
| C10H       | 3.25                | 2.00 | 2.00 | 2.81 | -    | 0.187                   |
| C11H       | 3.69                | 1.88 | 2.31 | 3.13 | -    | 0.187                   |
| C12H       | 3.69                | 2.00 | 2.31 | 3.13 | -    | 0.187                   |
| C13H       | 3.69                | 2.13 | 2.31 | 3.13 | -    | 0.187                   |
| C14H       | 4.03                | 2.25 | 2.63 | 3.56 | -    | 0.187                   |
| C15H       | 4.03                | 2.50 | 2.63 | 3.56 | -    | 0.187                   |
| C16H       | 4.50                | 2.50 | 3.00 | 4.00 | -    | 0.203                   |

| Part No. | VA   | Primary      | Secondary (R.M.S.) |      | Dim Ref. |
|----------|------|--------------|--------------------|------|----------|
|          |      |              | VAC                | Amps |          |
| 166F2    | 0.63 | 115 V 60 Hz. | 2.5 C.T.           | 0.25 | C2H      |
| 166G2    | 1.25 | 115 V 60 Hz. | 2.5 C.T.           | 0.5  | C2H      |
| 166J2    | 2.5  | 115 V 60 Hz. | 2.5 C.T.           | 1    | C3H      |
| 166K2    | 3.75 | 115 V 60 Hz. | 2.5 C.T.           | 1.5  | C4H      |
| 166L2    | 6.25 | 115 V 60 Hz. | 2.5 C.T.           | 2.5  | C6H      |
| 166M2    | 7.5  | 115 V 60 Hz. | 2.5 C.T.           | 3    | C6H      |
| 166Q2    | 15   | 115 V 60 Hz. | 2.5 C.T.           | 6    | C8H      |
| 166S2    | 25   | 115 V 60 Hz. | 2.5 C.T.           | 10   | C12H     |
| 166F5    | 1.25 | 115 V 60 Hz. | 5 C.T.             | 0.25 | C2H      |
| 166G5    | 2.5  | 115 V 60 Hz. | 5 C.T.             | 0.5  | C3H      |
| 166J5    | 5    | 115 V 60 Hz. | 5 C.T.             | 1    | C5H      |
| 166L5    | 10   | 115 V 60 Hz. | 5 C.T.             | 2    | C7H      |
| 166MS    | 15   | 115 V 60 Hz. | 5 C.T.             | 3    | C9H      |
| 166R5    | 40   | 115 V 60 Hz. | 5 C.T.             | 8    | C12H     |
| 166RS    | 40   | 115 V 60 Hz. | 5 C.T.             | 8    | C16H     |
| 166S5    | 50   | 115 V 60 Hz. | 5 C.T.             | 10   | C13H     |

| Part No. | VA    | Primary         | Secondary (R.M.S.) |      | Dim Ref. |
|----------|-------|-----------------|--------------------|------|----------|
|          |       |                 | VAC                | Amps |          |
| 166U5    | 75    | 115 V 60 Hz.    | 5 C.T.             | 15   | C14H     |
| 166V5    | 100   | 115 V 60 Hz.    | 5 C.T.             | 20   | C16H     |
| 166E6    | 0.95  | 115 V 60 Hz.    | 6.3 C.T.           | 0.15 | C2H      |
| 166F6    | 1.89  | 115 V 60 Hz.    | 6.3 C.T.           | 0.3  | C3H      |
| 166G6    | 3.78  | 115 V 60 Hz.    | 6.3 C.T.           | 0.6  | C4H      |
| 166J6    | 6.3   | 115 V 60 Hz.    | 6.3 C.T.           | 1    | C6H      |
| 166K6    | 7.56  | 115 V 60 Hz.    | 6.3 C.T.           | 1.2  | C6H      |
| 166K6B   | 7.56  | 117 V 50/60 Hz. | 6.3 C.T.           | 1.2  | C6H      |
| 166L6    | 12.6  | 115 V 60 Hz.    | 6.3 C.T.           | 2    | C7H      |
| 166M6    | 18.9  | 117 V 50/60 Hz. | 6.3 C.T.           | 3    | C10H     |
| 166N6    | 25.2  | 115 V 60 Hz.    | 6.3 C.T.           | 4    | C9H      |
| 166Q6    | 37.8  | 115 V 60 Hz.    | 6.3 C.T.           | 6    | C12H     |
| 166S6    | 63    | 115 V 60 Hz.    | 6.3 C.T.           | 10   | C14H     |
| 166G7    | 4.9   | 115 V 60 Hz.    | 7 C.T.             | 0.7  | C5H      |
| 166U7    | 112.5 | 115 V 60 Hz.    | 7.5 C.T.           | 15   | C16H     |
| 166G8    | 4     | 115 V 60 Hz.    | 8 C.T.             | 0.5  | C4H      |

| Part No. | VA    | Primary         | Secondary (R.M.S.) |         | Dim Ref. |
|----------|-------|-----------------|--------------------|---------|----------|
|          |       |                 | VAC                | Amps    |          |
| 166J8    | 8.5   | 115 V 60 Hz.    | 8.5 C.T.           | 1       | C6H      |
| 166L8    | 17    | 115 V 60 Hz.    | 8.5 C.T.           | 2       | C8H      |
| 166M8    | 25.5  | 115 V 60 Hz.    | 8.5 C.T.           | 3       | C9H      |
| 166N8    | 34    | 115 V 60 Hz.    | 8.5 C.T.           | 4       | C10H     |
| 166G9    | 4.5   | 115 V 60 Hz.    | 9 C.T.             | 0.5     | C4H      |
| 166F10   | 3     | 115 V 60 Hz.    | 10 C.T.            | 0.3     | C3H      |
| 166G10   | 5     | 115 V 60 Hz.    | 10 C.T.            | 0.5     | C5H      |
| 166J10   | 10    | 115 V 60 Hz.    | 10 C.T.            | 1       | C7H      |
| 166L10   | 20    | 115 V 60 Hz.    | 10 C.T.            | 2       | C9H      |
| 166M10   | 30    | 115 V 60 Hz.    | 10 C.T.            | 3       | C10H     |
| 166N10   | 40    | 115 V 60 Hz.    | 10 C.T.            | 4       | C12H     |
| 166P10   | 50    | 115 V 60 Hz.    | 10 C.T.            | 5       | C13H     |
| 166R10   | 80    | 115 V 60 Hz.    | 10 C.T.            | 8       | C15H     |
| 166S10   | 100   | 115 V 60 Hz.    | 10 C.T.            | 10      | C16H     |
| 166P11   | 55    | 115 V 60 Hz.    | 11 C.T.            | 5       | C13H     |
| 166S11   | 110   | 115 V 60 Hz.    | 11 C.T.            | 10      | C16H     |
| 166C12   | 0.63  | 115 V 60 Hz.    | 6.3/12.6 C.T.      | .1/.05  | C2H      |
| 166E12   | 1.8   | 115 V 60 Hz.    | 12 C.T.            | 0.15    | C3H      |
| 166F12B  | 3.6   | 115 V 60 Hz.    | 12 C.T.            | 0.3     | C4H      |
| 166F12C  | 4.2   | 115 V 60 Hz.    | 12 C.T.            | 0.35    | C4H      |
| 166GD12  | 8.4   | 117 V 50/60 Hz. | 12                 | 0.7     | C7H      |
| 166JA12  | 12    | 115 V 60 Hz.    | 12 C.T.            | 1       | C7H      |
| 166K12   | 14.4  | 115 V 60 Hz.    | 12 C.T.            | 1.2     | C8H      |
| 166JB12  | 14.4  | 117 V 50/60 Hz. | 12 C.T.            | 1.2     | C9H      |
| 166LA12  | 24    | 115 V 60 Hz.    | 12 C.T.            | 2       | C9H      |
| 166N12B  | 48    | 117 V 50/60 Hz. | 12 C.T.            | 4       | C12H     |
| 166F12   | 3.78  | 115 V 60 Hz.    | 12.6 C.T.          | 0.3     | C4H      |
| 166G12   | 6.3   | 115 V 60 Hz.    | 12.6 C.T.          | 0.5     | C6H      |
| 166J12   | 12.6  | 115 V 60 Hz.    | 12.6 C.T.          | 1       | C7H      |
| 166K12B  | 18.9  | 117 V 50/60 Hz. | 12.6 C.T.          | 1.5     | C10H     |
| 166L12B  | 25.2  | 117 V 50/60 Hz. | 12.6 C.T.          | 2       | C10H     |
| 166L12   | 31.5  | 115 V 60 Hz.    | 12.6 C.T.          | 2.5     | C10H     |
| 166M12   | 37.8  | 117 V 50/60 Hz. | 12.6 C.T.          | 3       | C13H     |
| 166N12   | 50.4  | 115 V 60 Hz.    | 12.6 C.T.          | 4       | C13H     |
| 166Q12   | 75.6  | 115 V 60 Hz.    | 12.6 C.T.          | 6       | C14H     |
| 166R12   | 100.8 | 115 V 60 Hz.    | 12.6 C.T.          | 8       | C16H     |
| 166E14   | 2.1   | 115 V 60 Hz.    | 14 C.T.            | 0.15    | C3H      |
| 166G14   | 7     | 115 V 60 Hz.    | 14 C.T.            | 0.5     | C6H      |
| 166J14   | 14    | 115 V 60 Hz.    | 14 C.T.            | 1       | C7H      |
| 166L14   | 28    | 115 V 60 Hz.    | 14 C.T.            | 2       | C10H     |
| 166Q14   | 84    | 115 V 60 Hz.    | 14 C.T.            | 6       | C15H     |
| 166F16   | 4     | 115 V 60 Hz.    | 16 C.T.            | 0.25    | C4H      |
| 166G16   | 8     | 115 V 60 Hz.    | 16 C.T.            | 0.50    | C6H      |
| 166J16   | 16    | 115 V 60 Hz.    | 16 C.T.            | 1       | C8H      |
| 166L16   | 35.2  | 115 V 60 Hz.    | 16 C.T.            | 2.2     | C10H     |
| 166M16   | 48    | 115 V 60 Hz.    | 16 C.T.            | 3       | C13H     |
| 166B18   | 0.54  | 115 V 60 Hz.    | 9/18 C.T.          | .06/.03 | C2H      |
| 166E18   | 5.4   | 115 V 60 Hz.    | 18 C.T.            | 0.3     | C5H      |
| 166K18   | 27    | 115 V 60 Hz.    | 18 C.T.            | 1.5     | C9H      |
| 166M18   | 54    | 115 V 60 Hz.    | 18 C.T.            | 3       | C13H     |
| 166P18   | 90    | 115 V 60 Hz.    | 18 C.T.            | 5       | C15H     |
| 166D20   | 2     | 115 V 60 Hz.    | 20 C.T.            | 0.1     | C3H      |
| 166E20   | 3     | 115 V 60 Hz.    | 20 C.T.            | 0.15    | C3H      |

| Part No. | VA   | Primary         | Secondary (R.M.S.) |          | Dim Ref. |
|----------|------|-----------------|--------------------|----------|----------|
|          |      |                 | VAC                | Amps     |          |
| 166F20   | 6    | 115 V 60 Hz.    | 20 C.T.            | 0.3      | C5H      |
| 166G20   | 10   | 115 V 60 Hz.    | 20 C.T.            | 0.5      | C7H      |
| 166J20   | 20   | 115 V 60 Hz.    | 20 C.T.            | 1        | C9H      |
| 166L20   | 40   | 115 V 60 Hz.    | 20 C.T.            | 2        | C11H     |
| 166L22   | 44   | 115 V 60 Hz.    | 22 C.T.            | 2        | C13H     |
| 166A24   | 0.63 | 115 V 60 Hz.    | 12.6/25.2 C.T.     | .05/.025 | C2H      |
| 166C24   | 2.04 | 115 V 60 Hz.    | 24 C.T.            | 0.085    | C3H      |
| 166EA24  | 4.8  | 115 V 60 Hz.    | 24 C.T.            | 0.2      | C5H      |
| 166FB24  | 9.6  | 117 V 50/60 Hz. | 24 C.T.            | 0.4      | C7H      |
| 166GD24B | 16.8 | 117 V 50/60 Hz. | 24 C.T.            | 0.7      | C9H      |
| 166J24   | 24   | 117 V 50/60 Hz. | 24 C.T.            | 1        | C10H     |
| 166JB24  | 24   | 115 V 60 Hz.    | 24 C.T.            | 1        | C9H      |
| 166L24   | 48   | 115 V 60 Hz.    | 24 C.T.            | 2        | C13H     |
| 166M24   | 72   | 115 V 60 Hz.    | 24 C.T.            | 3        | C14H     |
| 166N24   | 96   | 115 V 60 Hz.    | 24 C.T.            | 4        | C16H     |
| 166D25   | 2.5  | 115 V 60 Hz.    | 25 C.T.            | 0.1      | C3H      |
| 166E25   | 3.75 | 115 V 60 Hz.    | 25 C.T.            | 0.15     | C4H      |
| 166F25   | 7.5  | 115 V 60 Hz.    | 25 C.T.            | 0.3      | C6H      |
| 166G25   | 12.5 | 115 V 60 Hz.    | 25 C.T.            | 0.5      | C7H      |
| 166J25   | 25   | 115 V 60 Hz.    | 25 C.T.            | 1        | C9H      |
| 166J25B  | 25   | 117 V 50/60 Hz. | 25 C.T.            | 1        | C10H     |
| 166K25   | 37.5 | 115 V 60 Hz.    | 25 C.T.            | 1.5      | C11H     |
| 166L25   | 50   | 115 V 60 Hz.    | 25 C.T.            | 2        | C13H     |
| 166M25   | 75   | 115 V 60 Hz.    | 25 C.T.            | 3        | C14H     |
| 166L25B  | 50.4 | 115 V 50/60 Hz. | 25.2 C.T.          | 2        | C14H     |
| 166F28   | 7    | 115 V 60 Hz.    | 28 C.T.            | 0.25     | C6H      |
| 166G28   | 14   | 115 V 60 Hz.    | 28 C.T.            | 0.5      | C7H      |
| 166J28   | 28   | 115 V 60 Hz.    | 28 C.T.            | 1        | C10H     |
| 166L28   | 56   | 115 V 60 Hz.    | 28 C.T.            | 2        | C13H     |
| 166E30   | 4.5  | 115 V 60 Hz.    | 30 C.T.            | 0.15     | C4H      |
| 166F30   | 7.5  | 115 V 60 Hz.    | 30 C.T.            | 0.25     | C6H      |
| 166G30   | 15   | 115 V 60 Hz.    | 30 C.T.            | 0.5      | C8H      |
| 166J33   | 33   | 115 V 60 Hz.    | 33 C.T.            | 1        | C10H     |
| 166K35   | 52.5 | 115 V 60 Hz.    | 35 C.T.            | 1.5      | C13H     |
| 166E36   | 5.4  | 115 V 60 Hz.    | 36 C.T.            | 0.15     | C5H      |
| 166F36   | 10.8 | 115 V 60 Hz.    | 36 C.T.            | 0.3      | C7H      |
| 166G36   | 18   | 115 V 60 Hz.    | 36 C.T.            | 0.5      | C8H      |
| 166J36   | 36   | 115 V 60 Hz.    | 36 C.T.            | 1        | C11H     |
| 166L42   | 84   | 115 V 60 Hz.    | 42 C.T.            | 2        | C15H     |
| 166E44   | 6.6  | 115 V 60 Hz.    | 44 C.T.            | 0.15     | C6H      |
| 166F44   | 11   | 115 V 60 Hz.    | 44 C.T.            | 0.25     | C7H      |
| 166G44   | 22   | 115 V 60 Hz.    | 44 C.T.            | 0.5      | C9H      |
| 166J44   | 44   | 115 V 60 Hz.    | 44 C.T.            | 1        | C12H     |
| 166M48   | 144  | 117 V 50/60 Hz. | 48 C.T.            | 3        | B1H      |
| 166C50   | 3.75 | 115 V 60 Hz.    | 50 C.T.            | 0.075    | C4H      |
| 166F50   | 15   | 115 V 60 Hz.    | 50 C.T.            | 0.3      | C8H      |
| 166G50   | 25   | 115 V 60 Hz.    | 50 C.T.            | 0.5      | C9H      |
| 166J50   | 50   | 115 V 60 Hz.    | 50 C.T.            | 1        | C13H     |
| 166L50   | 100  | 115 V 60 Hz.    | 50 C.T.            | 2        | C16H     |
| 166G60   | 30   | 115 V 60 Hz.    | 60 C.T.            | 0.5      | C10H     |
| 166M72   | 216  | 117 V 50/60 Hz. | 72 C.T.            | 3        | B2H      |
| 166G80   | 40   | 115 V 60 Hz.    | 80 C.T.            | 0.5      | C11H     |
| 166G100  | 50   | 115 V 60 Hz.    | 100 C.T.           | 0.5      | C13H     |
| 166F120  | 36   | 115 V 60 Hz.    | 120 C.T.           | 0.3      | C11H     |



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