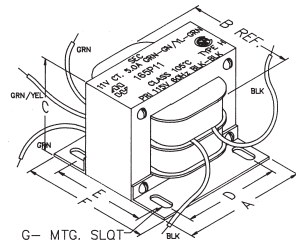


| Cat. No. | VA Rating | Secondary (RMS) |                | Net Price |
|----------|-----------|-----------------|----------------|-----------|
|          |           | VAC             | Current (Amps) |           |
| 186B10   | 6.00      | 10VCT           | 0.60           | \$14.18   |
| 186C10   | 12.00     | 10VCT           | 1.20           | 15.64     |
| 186D10   | 30.00     | 10VCT           | 3.00           | 20.12     |
| 186E10   | 50.00     | 10VCT           | 5.00           | 24.97     |
| 186F10   | 100.00    | 10VCT           | 10.00          | 34.55     |
| 186B12   | 6.30      | 12.6VCT         | 0.50           | 14.18     |
| 186C12   | 12.60     | 12.6VCT         | 1.00           | 15.64     |
| 186D12   | 31.50     | 12.6VCT         | 2.50           | 20.12     |
| 186E12   | 50.40     | 12.6VCT         | 4.00           | 24.97     |
| 186F12   | 100.8     | 12.6VCT         | 8.00           | 34.55     |
| 186B16   | 6.40      | 16VCT           | 0.40           | 14.18     |
| 186C16   | 12.80     | 16VCT           | 0.80           | 15.64     |
| 186D16   | 32.00     | 16VCT           | 2.00           | 20.12     |
| 186E16   | 56.00     | 16VCT           | 3.50           | 24.97     |
| 186F16   | 100.00    | 16VCT           | 6.25           | 34.55     |
| 186B20   | 6.00      | 20VCT           | 0.30           | 14.18     |
| 186C20   | 12.00     | 20VCT           | 0.60           | 15.64     |
| 186D20   | 30.00     | 20VCT           | 1.50           | 20.12     |
| 186E20   | 56.00     | 20VCT           | 2.80           | 24.97     |
| 186F20   | 100.00    | 20VCT           | 5.00           | 34.55     |
| 186B24   | 6.00      | 24VCT           | 0.25           | 14.18     |
| 186C24   | 12.00     | 24VCT           | 0.50           | 15.64     |
| 186D24   | 30.00     | 24VCT           | 1.25           | 20.12     |
| 186E24   | 57.60     | 24VCT           | 2.40           | 24.97     |
| 186F24   | 96.00     | 24VCT           | 4.00           | 34.55     |
| 186B28   | 5.60      | 28VCT           | 0.20           | 14.18     |
| 186C28   | 12.00     | 28VCT           | 0.42           | 15.64     |
| 186D28   | 30.00     | 28VCT           | 1.07           | 20.12     |
| 186E28   | 56.00     | 28VCT           | 2.00           | 24.97     |
| 186F28   | 100.00    | 28VCT           | 3.57           | 34.55     |
| 186B36   | 6.12      | 36VCT           | 0.17           | 14.18     |
| 186C36   | 12.60     | 36VCT           | 0.35           | 15.64     |
| 186D36   | 30.60     | 36VCT           | 0.85           | 20.12     |
| 186E36   | 54.00     | 36VCT           | 1.50           | 24.97     |
| 186F36   | 100.80    | 36VCT           | 2.80           | 34.55     |
| 186B48   | 6.00      | 48VCT           | 0.12           | 14.18     |
| 186C48   | 12.00     | 48VCT           | 0.25           | 15.64     |
| 186D48   | 30.00     | 48VCT           | 0.62           | 20.12     |
| 186E48   | 57.60     | 48VCT           | 1.20           | 24.97     |
| 186F48   | 96.00     | 48VCT           | 2.00           | 34.55     |
| 186B56   | 6.16      | 56VCT           | 0.11           | 14.18     |
| 186C56   | 12.30     | 56VCT           | 0.21           | 15.64     |
| 186D56   | 30.00     | 56VCT           | 0.53           | 20.12     |
| 186E56   | 56.00     | 56VCT           | 1.00           | 24.97     |
| 186F56   | 100.80    | 56VCT           | 1.80           | 34.55     |
| 186B120  | 6.00      | 120VCT          | 0.05           | 14.18     |
| 186C120  | 12.00     | 120VCT          | 0.10           | 15.64     |
| 186D120  | 30.00     | 120VCT          | 0.25           | 20.12     |
| 186E120  | 60.00     | 120VCT          | 0.50           | 24.97     |
| 186F120  | 102.00    | 120VCT          | 0.85           | 34.55     |



165 SERIES



### L.V. RECTIFIER — FILAMENT OPEN FRAME 165 SERIES

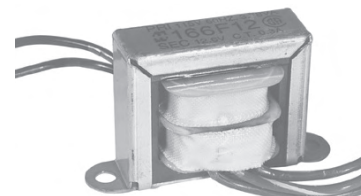
- High current, open, heavy duty "H", 4 slot mounting frame.
- 115V Primary, 60 Hz. — designed for continuous duty.
- All secondaries centre tapped, VAC (RMS).
- Minimum 6" long leads or copper tabs with holes.
- UL listed (#E50394) and CSA certified (#LR3902).
- Hi-pot test of 2000 V RMS.
- Class B insulation (130 degrees, C).
- Dual bobbin design—no electrostatic shield required.

#### OPEN HORIZONTAL MOUNTING TYPE H

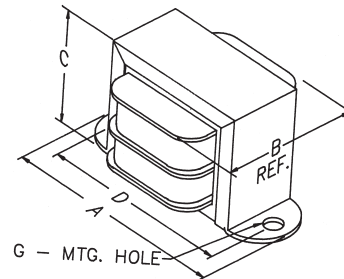
| Mtg. Style | Dimensions |      |      |      |      |      | Mtg. Slot |
|------------|------------|------|------|------|------|------|-----------|
|            | A          | B    | C    | D    | E    | F    |           |
| H7         | 3.00       | 3.25 | 2.56 | 2.50 | 3.25 | 4.00 | .22x.56   |
| H9         | 3.75       | 2.63 | 3.13 | 3.13 | 2.50 | 3.25 | .22x.56   |
| H10        | 3.75       | 3.13 | 3.13 | 3.13 | 2.75 | 3.50 | .22x.56   |
| H12        | 3.75       | 3.63 | 3.13 | 3.13 | 3.25 | 4.00 | .22x.56   |
| H16        | 4.50       | 3.88 | 3.75 | 3.75 | 2.75 | 3.50 | .28x.56   |
| H18        | 4.50       | 4.38 | 3.75 | 3.75 | 3.25 | 4.00 | .28x.56   |
| H19        | 4.50       | 4.38 | 3.75 | 3.75 | 3.75 | 4.50 | .28x.56   |

#### 165 SERIES

| Cat. No.                            | Secondary F.L. Volts | Amps. | Dim. Ref. | Net Price |
|-------------------------------------|----------------------|-------|-----------|-----------|
| <b>TYPE H—OPEN HORIZONTAL FRAME</b> |                      |       |           |           |
| 165Z3                               | 3.0 ct               | 50.0  | H10       | \$65.09   |
| 165X5                               | 5.0 ct.              | 30.0  | H9        | 64.36     |
| 165V7                               | 7.5 ct               | 21.0  | H9        | 65.60     |
| 165V10                              | 10.0 ct              | 20.0  | H10       | 71.27     |
| 165U11                              | 11.0 ct              | 15.0  | H9        | 63.22     |
| 165S12                              | 12.6 ct              | 10.0  | H7        | 60.16     |
| 165V12                              | 12.6 ct              | 20.0  | H12       | 76.20     |
| 165S18                              | 18.0 ct              | 10.0  | H10       | 65.56     |
| 165U18                              | 18.0 ct              | 15.0  | H16       | 75.69     |
| 165V18                              | 18.0 ct              | 20.0  | H18       | 86.51     |
| 165T22                              | 22.0 ct              | 12.0  | H16       | 77.49     |
| 165V22                              | 22.0 ct              | 20.0  | H19       | 96.53     |
| 165P25                              | 25.0 ct              | 5.0   | H7        | 64.85     |
| 165S25                              | 25.0 ct              | 10.0  | H12       | 73.09     |
| 165P30                              | 30.0 ct              | 5.0   | H7        | 58.96     |
| 165S30                              | 30.0 ct              | 10.0  | H16       | 79.84     |
| 165P60                              | 60.0 ct              | 5.0   | H16       | 78.07     |
| 165N80                              | 80.0 ct              | 4.0   | H18       | 81.21     |



166 SERIES



### L.V. RECTIFIER — FILAMENT OPEN CHANNEL MOUNT 166 SERIES

- Open, 2 hole, channel bracket "C" mounting.
- 115V Primary, 60 Hz. — designed for continuous duty.
- All secondaries centre tapped, VAC (RMS)—except 166L22.
- Secondary leads minimum 6" long.
- UL listed (E50394) and CSA certified (LR3902).
- Hi-pot test of 2000 V RMS.
- Dual bobbin design—no electrostatic shield required.
- Class B insulation (130 degrees, C) for extra protection—UL listed as a class A (105 degree; C) design.

#### HORIZONTAL CHANNEL BRACKET TYPE C

| Mtg. Style | Dimensions |      |      |      | Mtg. Hole |
|------------|------------|------|------|------|-----------|
|            | A          | B    | C    | D    |           |
| C0H        | 1.35       | 0.69 | 0.69 | 1.06 | .125      |
| C1H        | 1.63       | 0.88 | 0.81 | 1.38 | .125      |
| C2H        | 2.06       | 1.25 | 1.19 | 1.75 | .187      |
| C3H        | 2.06       | 1.38 | 1.19 | 1.75 | .187      |
| C4H        | 2.38       | 1.38 | 1.38 | 2.00 | .187      |
| C5H        | 2.38       | 1.50 | 1.38 | 2.00 | .187      |
| C6H        | 2.81       | 1.50 | 1.69 | 2.38 | .187      |
| C7H        | 2.81       | 1.63 | 1.69 | 2.38 | .187      |
| C8H        | 3.25       | 1.63 | 2.00 | 2.81 | .187      |
| C9H        | 3.25       | 1.75 | 2.00 | 2.81 | .187      |
| C10H       | 3.25       | 2.00 | 2.00 | 2.81 | .187      |
| C11H       | 3.69       | 1.88 | 2.31 | 3.13 | .187      |
| C12H       | 3.69       | 2.00 | 2.31 | 3.13 | .187      |
| C13H       | 3.69       | 2.13 | 2.31 | 3.13 | .187      |
| C14H       | 4.03       | 2.25 | 2.63 | 3.56 | .187      |
| C15H       | 4.03       | 2.50 | 2.63 | 3.56 | .187      |
| C16H       | 4.50       | 2.50 | 2.88 | 4.00 | .203      |

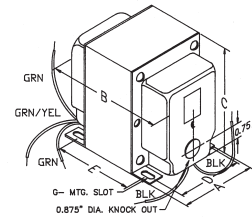
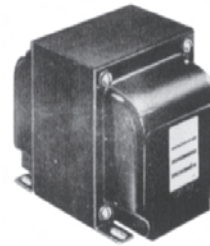
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## 166 SERIES

| Cat. No.                               | Secondary F.L. Volts | Amps.    | Dim. Ref. | Net Price |
|--|----------------------|----------|-----------|-----------|
| <b>TYPE C—CHANNEL BRACKET MOUNTING</b> |                      |          |           |           |
| 166F2                                  | 2.5 ct               | 0.25     | C2H       | \$22.85   |
| 166G2                                  | 2.5 ct               | 0.50     | C2H       | 22.49     |
| 166J2                                  | 2.5 ct               | 1.00     | C3H       | 22.85     |
| 166K2                                  | 2.5 ct               | 1.50     | C4H       | 20.62     |
| 166L2                                  | 2.5 ct               | 2.50     | C6H       | 21.56     |
| 166M2                                  | 2.5 ct               | 3.00     | C6H       | 16.15     |
| 166Q2                                  | 2.5 ct               | 6.00     | C8H       | 24.05     |
| 166S2                                  | 2.5 ct               | 10.00    | C12H      | 26.18     |
| 166F5                                  | 5.0 ct               | 0.25     | C2H       | 22.85     |
| 166G5                                  | 5.0 ct               | 0.50     | C3H       | 22.60     |
| 166J5                                  | 5.0 ct               | 1.00     | C5H       | 21.45     |
| 166M5                                  | 5.0 ct               | 3.00     | C9H       | 16.15     |
| 166L5                                  | 5.0 ct               | 2.00     | C7H       | 21.71     |
| 166R5                                  | 5.0 ct               | 8.0      | C12H      | 32.76     |
| 166RS                                  | 5.0 ct               | 8.0      | C16H      | 26.93     |
| 166S5                                  | 5.0 ct               | 10.0     | C13H      | 32.38     |
| 166U5                                  | 5.0 ct               | 15.0     | C14H      | 37.13     |
| 166V5                                  | 5.0 ct               | 20.0     | C16H      | 45.29     |
| 166E6                                  | 6.3 ct               | 0.15     | C2H       | 22.22     |
| 166F6                                  | 6.3 ct               | 0.30     | C3H       | 22.15     |
| 166G6                                  | 6.3 ct               | 0.60     | C4H       | 19.96     |
| 166J6                                  | 6.3 ct               | 1.00     | C6H       | 21.55     |
| 166K6                                  | 6.3 ct               | 1.20     | C6H       | 21.24     |
| 166L6                                  | 6.3 ct               | 2.00     | C7H       | 21.67     |
| 166N6                                  | 6.3 ct               | 4.00     | C9H       | 22.96     |
| 166Q6                                  | 6.3 ct               | 6.0      | C12H      | 31.73     |
| 166S6                                  | 6.3 ct               | 10.0     | C14H      | 37.62     |
| 166G7                                  | 7.0 ct               | 0.70     | C5H       | 21.09     |
| 166U7                                  | 7.5 ct               | 15.0     | C16H      | 47.78     |
| 166G8                                  | 8.0 ct               | 0.50     | C4H       | 19.96     |
| 166J8                                  | 8.5 ct               | 1.00     | C6H       | 21.76     |
| 166L8                                  | 8.5 ct               | 2.00     | C8H       | 22.29     |
| 166M8                                  | 8.5 ct               | 3.00     | C9H       | 23.02     |
| 166N8                                  | 8.5 ct               | 4.00     | C10H      | 23.53     |
| 166G9                                  | 9.0 ct               | 0.50     | C4H       | 19.96     |
| 166F10                                 | 10.0 ct              | 0.30     | C3H       | 22.40     |
| 166G10                                 | 10.0 ct              | 0.50     | C5H       | 20.89     |
| 166J10                                 | 10.0 ct              | 1.00     | C7H       | 21.71     |
| 166L10                                 | 10.0 ct              | 2.0      | C9H       | 22.51     |
| 166M10                                 | 10.0 ct              | 3.0      | C10H      | 23.24     |
| 166N10                                 | 10.0 ct              | 4.0      | C12H      | 32.11     |
| 166P10                                 | 10.0 ct              | 5.0      | C13H      | 32.73     |
| 166R10                                 | 10.0 ct              | 8.0      | C15H      | 38.65     |
| 166S10                                 | 10.0 ct              | 10.0     | C16H      | 42.58     |
| 166P11                                 | 11.0 ct              | 5.0      | C13H      | 31.95     |
| 166S11                                 | 11.0 ct              | 10.0     | C16H      | 43.55     |
| 166C12                                 | 6.3/12.6 ct          | .1/.05   | C2H       | 23.13     |
| 166E12                                 | 12.0 ct              | .15      | C3H       | 23.11     |
| 166K12                                 | 12.0 ct              | 1.2      | C8H       | 22.07     |
| 166F12                                 | 12.6 ct              | 0.3      | C4H       | 20.04     |
| 166G12                                 | 12.6 ct              | 0.5      | C6H       | 21.25     |
| 166J12                                 | 12.6 ct              | 1.0      | C7H       | 22.02     |
| 166L12                                 | 12.6 ct              | 2.5      | C10H      | 24.42     |
| 166N12                                 | 12.6 ct              | 4.0      | C13H      | 28.25     |
| 166Q12                                 | 12.6 ct              | 6.0      | C14H      | 35.33     |
| 166R12                                 | 12.6 ct              | 8.0      | C16H      | 39.18     |
| 166E14                                 | 14.0 ct              | 0.15     | C3H       | 23.13     |
| 166G14                                 | 14.0 ct              | 0.5      | C6H       | 21.31     |
| 166J14                                 | 14.0 ct              | 1.0      | C7H       | 22.02     |
| 166L14                                 | 14.0 ct              | 2.0      | C10H      | 23.05     |
| 166Q14                                 | 14.0 ct              | 6.0      | C15H      | 38.65     |
| 166F16                                 | 16.0 ct              | 0.25     | C4H       | 20.51     |
| 166G16                                 | 16.0 ct              | 0.5      | C6H       | 21.36     |
| 166J16                                 | 16.0 ct              | 1.0      | C8H       | 22.24     |
| 166L16                                 | 16.0 ct              | 2.2      | C10H      | 23.69     |
| 166M16                                 | 16.0 ct              | 3.0      | C13H      | 28.22     |
| 166B18                                 | 9.0/18.0 ct          | .06/.03  | C2H       | 23.24     |
| 166K18                                 | 18.0 ct              | 1.5      | C9H       | 23.11     |
| 166M18                                 | 18.0 ct              | 3.0      | C13H      | 32.45     |
| 166P18                                 | 18.0 ct              | 5.0      | C15H      | 37.71     |
| 166D20                                 | 20.0 ct              | 0.1      | C3H       | 23.18     |
| 166E20                                 | 20.0 ct              | 0.15     | C3H       | 23.33     |
| 166F20                                 | 20.0 ct              | 0.3      | C5H       | 22.44     |
| 166G20                                 | 20.0 ct              | 0.5      | C7H       | 21.31     |
| 166J20                                 | 20.0 ct              | 1.0      | C9H       | 22.55     |
| 166L20                                 | 20.0 ct              | 2.0      | C11H      | 30.71     |
| 166L22                                 | 22.0 ct              | 2.0      | C13H      | 27.27     |
| 166A24                                 | 12.6/25.2 ct         | .05/.025 | C2H       | 23.33     |
| 166C24                                 | 24.0 ct              | .085     | C3H       | 23.00     |
| 166L24                                 | 24.0 ct              | 2.0      | C13H      | 27.44     |
| 166N24                                 | 24.0 ct              | 4.0      | C16H      | 38.22     |
| 166D25                                 | 25.0 ct              | 0.1      | C3H       | 23.27     |
| 166E25                                 | 25.0 ct              | 0.15     | C4H       | 20.09     |
| 166F25                                 | 25.0 ct              | 0.3      | C6H       | 21.29     |
| 166G25                                 | 25.0 ct              | 0.5      | C7H       | 21.67     |
| 166J25                                 | 25.0 ct              | 1.0      | C9H       | 23.00     |
| 166K25                                 | 25.0 ct              | 1.5      | C11H      | 26.87     |
| 166L25                                 | 25.0 ct              | 2.0      | C13H      | 27.69     |
| 166M25                                 | 25.0 ct              | 3.0      | C14H      | 34.35     |

## 166 SERIES (CONTINUED)

| Cat. No. | Secondary F.L. Volts | Amps. | Dim. Ref. | Net Price |
|----------|----------------------|-------|-----------|-----------|
| 166F28   | 28.0 ct              | 0.25  | C6H       | \$21.25   |
| 166G28   | 28.0 ct              | 0.5   | C7H       | 21.96     |
| 166J28   | 28.0 ct              | 1.0   | C10H      | 23.02     |
| 166L28   | 28.0 ct              | 2.0   | C13H      | 31.53     |
| 166E30   | 30.0 ct              | 0.15  | C4H       | 20.25     |
| 166F30   | 30.0 ct              | 0.25  | C6H       | 21.35     |
| 166G30   | 30.0 ct              | 0.50  | C8H       | 21.78     |
| 166J33   | 33.0 ct              | 1.0   | C10H      | 23.67     |
| 166K35   | 35.0 ct              | 1.5   | C13H      | 28.00     |
| 166E36   | 36.0 ct              | 0.15  | C5H       | 21.36     |
| 166F36   | 36.0 ct              | 0.3   | C7H       | 21.56     |
| 166G36   | 36.0 ct              | 0.5   | C8H       | 22.07     |
| 166J36   | 36.0 ct              | 1.0   | C11H      | 26.91     |
| 166L42   | 42.0 ct              | 2.0   | C15H      | 37.04     |
| 166E44   | 44.0 ct              | 0.15  | C6H       | 21.29     |
| 166F44   | 44.0 ct              | 0.25  | C7H       | 21.56     |
| 166G44   | 44.0 ct              | 0.50  | C9H       | 22.35     |
| 166J44   | 44.0 ct              | 1.0   | C12H      | 28.04     |
| 166C50   | 50.0 ct              | 0.075 | C4H       | 21.04     |
| 166F50   | 50.0 ct              | 0.3   | C8H       | 21.87     |
| 166G50   | 50.0 ct              | 0.5   | C9H       | 22.69     |
| 166J50   | 50.0 ct              | 1.0   | C13H      | 27.75     |
| 166L50   | 50.0 ct              | 2.0   | C16H      | 37.96     |
| 166G60   | 60.0 ct              | 0.5   | C10H      | 23.89     |
| 166G80   | 80.0 ct              | 0.5   | C11H      | 27.44     |
| 166G100  | 100.0 ct             | 0.5   | C13H      | 27.84     |
| 166F120  | 120.0 ct             | 0.3   | C11H      | 26.51     |



## 167 SERIES

### L.V. RECTIFIER—FILAMENT ENCLOSED SHIELDED 167 SERIES

- Enclosed, 4 slot, "X" mounting.
- 115V Primary, 60 Hz. —designed for continuous duty.
- All secondaries centre tapped VAC (RMS).
- Secondary leads minimum 6" long.
- UL listed (#E50394) and CSA certified (#LR3902).
- Hi-pot test of 2000 V RMS.
- Dual bobbin design—no electrostatic shield required.
- Class B insulation (130 degrees C).

### 167 SERIES—ENCLOSED VERTICAL MOUNTING TYPE X

| Mtg. Style | Dimensions |         |      |      |         | Mtg. Slot  |
|------------|------------|---------|------|------|---------|------------|
|            | A          | B±1/16" | C    | D    | E±1/16" |            |
| X1         | 1.88       | 2.19    | 2.50 | 1.50 | 1.31    | .19 x .31  |
| X2         | 1.88       | 2.44    | 2.50 | 1.50 | 1.56    | .19 x .31  |
| X3         | 2.19       | 2.38    | 2.63 | 1.75 | 1.31    | .19 x .25  |
| X4         | 2.19       | 2.50    | 2.63 | 1.75 | 1.44    | .19 x .25  |
| X5         | 2.19       | 2.63    | 2.63 | 1.75 | 1.56    | .19 x .25  |
| X6         | 2.50       | 2.75    | 3.06 | 2.00 | 1.69    | .203 x .38 |
| X7         | 2.50       | 3.00    | 3.06 | 2.00 | 1.94    | .203 x .38 |
| X8         | 2.50       | 3.25    | 3.06 | 2.00 | 2.19    | .203 x .38 |
| X9         | 2.50       | 3.75    | 3.06 | 2.00 | 2.69    | .203 x .38 |
| X10        | 3.13       | 3.50    | 3.81 | 2.50 | 2.19    | .203 x .38 |
| X11        | 3.13       | 3.75    | 3.81 | 2.50 | 2.44    | .203 x .38 |
| X13        | 3.75       | 4.00    | 4.56 | 3.00 | 2.81    | .203 x .38 |
| X14        | 3.75       | 4.50    | 4.56 | 3.00 | 3.31    | .203 x .38 |
| X15        | 3.75       | 5.00    | 4.56 | 3.00 | 3.81    | .203 x .38 |
| X16        | 3.75       | 5.50    | 4.56 | 3.00 | 4.31    | .203 x .38 |

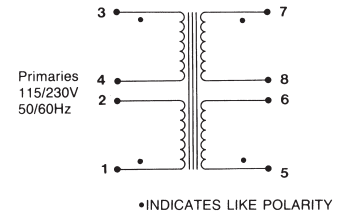
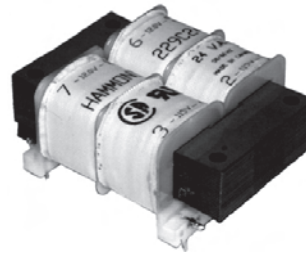
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# Hammond Power Transformers

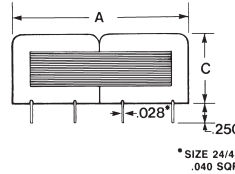
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195  
CODE

## 167 SERIES

| Cat. No.                   | Secondary F.L. Volts | Amps. | Dim. Ref. | Net Price |
|----------------------------|----------------------|-------|-----------|-----------|
| <b>TYPE X—4-HOLE MOUNT</b> |                      |       |           |           |
| 167M5                      | 5.0 ct               | 3.00  | X1        | \$28.95   |
| 167Q5                      | 5.0 ct               | 6.00  | X2        | 31.73     |
| 167R5                      | 5.0 ct               | 8.00  | X4        | 38.69     |
| 167S5                      | 5.0 ct               | 10.00 | X5        | 38.02     |
| 167U5                      | 5.0 ct               | 15.00 | X6        | 43.44     |
| 167V5                      | 5.0 ct               | 20.0  | X8        | 50.58     |
| 167X5                      | 5.0 ct               | 30.0  | X10       | 58.29     |
| 167N6                      | 6.3 ct               | 4.0   | X2        | 29.93     |
| 167Q6                      | 6.3 ct               | 6.0   | X3        | 36.00     |
| 167R6                      | 6.3 ct               | 8.0   | X5        | 37.93     |
| 167S6                      | 6.3 ct               | 10.0  | X6        | 42.87     |
| 167T6                      | 6.3 ct               | 12.0  | X6        | 42.33     |
| 167U6                      | 6.3 ct               | 16.0  | X8        | 48.04     |
| 167U7                      | 7.5 ct               | 15.0  | X8        | 51.31     |
| 167V7                      | 7.5 ct               | 21.0  | X10       | 59.24     |
| 167N10                     | 10.0 ct              | 4.0   | X4        | 34.44     |
| 167P10                     | 10.0 ct              | 5.0   | X5        | 34.29     |
| 167R10                     | 10.0 ct              | 8.0   | X7        | 46.13     |
| 167S10                     | 10.0 ct              | 10.0  | X8        | 47.78     |
| 167P11                     | 11.0 ct              | 5.0   | X6        | 40.73     |
| 167S11                     | 11.0 ct              | 10.0  | X8        | 48.51     |
| 167U11                     | 11.0 ct              | 15.0  | X10       | 60.93     |
| 167L12                     | 12.6 ct              | 2.5   | X2        | 29.67     |
| 167N12                     | 12.6 ct              | 4.0   | X5        | 34.29     |
| 167Q12                     | 12.6 ct              | 6.0   | X6        | 41.55     |
| 167R12                     | 12.6 ct              | 8.0   | X8        | 48.05     |
| 167S12                     | 12.6 ct              | 10.0  | X9        | 54.04     |
| 167V12                     | 12.6 ct              | 20.0  | X13       | 73.91     |
| 167N14                     | 14.0 ct.             | 4.0   | X6        | 40.64     |
| 167Q14                     | 14.0 ct.             | 6.0   | X7        | 44.87     |
| 167M16                     | 16.0 ct              | 3.0   | X5        | 34.09     |
| 167P16                     | 16.0 ct              | 5.0   | X7        | 44.64     |
| 167M18                     | 18.0 ct              | 3.0   | X6        | 39.75     |
| 167P18                     | 18.0 ct              | 5.0   | X7        | 45.49     |
| 167S18                     | 18.0 ct              | 10.0  | X11       | 64.89     |
| 167U18                     | 18.0 ct              | 15.0  | X13       | 76.22     |
| 167V18                     | 18.0 ct              | 20.0  | X14       | 85.60     |
| 167M20                     | 20.0 ct              | 3.0   | X6        | 40.69     |
| 167P20                     | 20.0 ct              | 5.0   | X8        | 45.65     |
| 167U20                     | 20.0 ct              | 16.0  | X14       | 81.96     |
| 167T22                     | 22.0 ct              | 12.0  | X13       | 75.33     |
| 167V22                     | 22.0 ct              | 20.0  | X15       | 93.09     |
| 167L24                     | 24.0 ct              | 2.0   | X5        | 33.29     |
| 167J25                     | 25.0 ct              | 1.0   | X2        | 29.13     |
| 167K25                     | 25.0 ct              | 1.5   | X3        | 33.45     |
| 167M25                     | 25.0 ct              | 3.0   | X6        | 42.02     |
| 167N25                     | 25.0 ct              | 4.0   | X8        | 47.13     |
| 167P25                     | 25.0 ct              | 5.0   | X9        | 52.87     |
| 167S25                     | 25.0 ct              | 10.0  | X13       | 73.98     |
| 167J28                     | 28.0 ct              | 1.0   | X2        | 29.24     |
| 167L28                     | 28.0 ct              | 2.0   | X6        | 39.96     |
| 167M28                     | 28.0 ct              | 3.0   | X7        | 44.84     |
| 167K30                     | 30.0 ct              | 1.5   | X4        | 34.07     |
| 167M30                     | 30.0 ct              | 3.0   | X7        | 45.49     |
| 167P30                     | 30.0 ct              | 5.0   | X10       | 53.24     |
| 167S30                     | 30.0 ct              | 10.0  | X13       | 77.96     |
| 167J33                     | 33.0 ct              | 1.0   | X2        | 29.91     |
| 167J36                     | 36.0 ct.             | 1.0   | X3        | 33.20     |
| 167L36                     | 36.0 ct.             | 2.0   | X6        | 41.24     |
| 167M36                     | 36.0 ct.             | 3.0   | X8        | 47.69     |
| 167P36                     | 36.0 ct.             | 5.0   | X11       | 60.31     |
| 167R36                     | 36.0 ct.             | 8.0   | X13       | 76.16     |
| 167T36                     | 36.0 ct.             | 12.0  | X15       | 92.78     |
| 167L44                     | 44.0 ct.             | 2.0   | X7        | 45.00     |
| 167J50                     | 50.0 ct.             | 1.0   | X5        | 35.80     |
| 167L50                     | 50.0 ct.             | 2.0   | X8        | 45.96     |
| 167P50                     | 50.0 ct.             | 5.0   | X13       | 69.42     |
| 167G55                     | 55.0 ct              | 0.5   | X2        | 29.04     |
| 167J55                     | 55.0 ct              | 1.0   | X6        | 37.65     |
| 167L55                     | 55.0 ct              | 2.0   | X8        | 46.64     |
| 167G60                     | 60.0 ct              | 0.5   | X2        | 29.20     |
| 167J60                     | 60.0 ct              | 1.0   | X6        | 40.25     |
| 167L60                     | 60.0 ct              | 2.0   | X9        | 51.67     |
| 167M60                     | 60.0 ct              | 3.0   | X11       | 60.73     |
| 167P60                     | 60.0 ct              | 5.0   | X13       | 72.84     |
| 167S64                     | 64.0 ct              | 10.0  | X16       | 124.71    |
| 167L70                     | 70.0 ct              | 2.0   | X9        | 52.98     |
| 167N70                     | 70.0 ct              | 4.0   | X13       | 71.75     |
| 167G80                     | 80.0 ct              | 0.5   | X4        | 34.02     |
| 167J80                     | 80.0 ct              | 1.0   | X7        | 44.27     |
| 167L80                     | 80.0 ct              | 2.0   | X10       | 54.38     |
| 167N80                     | 80.0 ct              | 4.0   | X14       | 77.09     |
| 167G100                    | 100.0 ct             | 0.5   | X5        | 34.80     |
| 167J100                    | 100.0 ct             | 1.0   | X8        | 47.05     |
| 167P100                    | 100.0 ct             | 5.0   | X16       | 106.75    |
| 167G120                    | 120.0 ct             | 0.5   | X6        | 21.35     |
| 167H200                    | 200.0 ct.            | 0.87  | X11       | 59.69     |



• INDICATES LIKE POLARITY



## L.V. RECTIFIER—LOW PROFILE P.C. BOARD MOUNT 229 SERIES

- Low profile, split winding design, balanced windings.
- Low primary to secondary coupling, balanced windings, no electrostatic shield required and low EMF radiation due to semi-toroidal design.
- 115/230 V dual primary windings, dual secondary windings, 50/60 Hz.
- CSA certified (File #LR3902) & UL recognized (File #E50394)
- High insulation - Hipot of 1.750 RMS
- Class B insulation - 130 degrees C.

| VA Size | Regulation | PC Card Spacing | Dimensions |      |      |     |     |      |
|---------|------------|-----------------|------------|------|------|-----|-----|------|
|         |            |                 | A          | B    | C    | D   | D'  | E    |
| 2       | 30%        | .75             | 1.56       | 1.88 | .65  | .38 | .38 | 1.60 |
| 6       | 30%        | 1.0             | 1.56       | 1.88 | .85  | .38 | .38 | 1.60 |
| 12      | 20%        | 1.25            | 2.00       | 2.50 | 1.07 | .50 | .50 | 2.00 |
| 24      | 15%        | 1.5             | 2.25       | 2.87 | 1.25 | .60 | .53 | 1.90 |
| 48      | 15%        | 1.5             | 2.50       | 3.12 | 1.38 | .60 | .66 | 2.18 |

All dimensions in inches

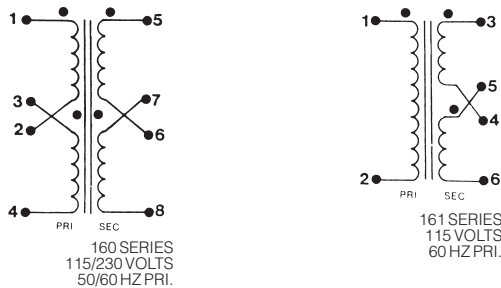
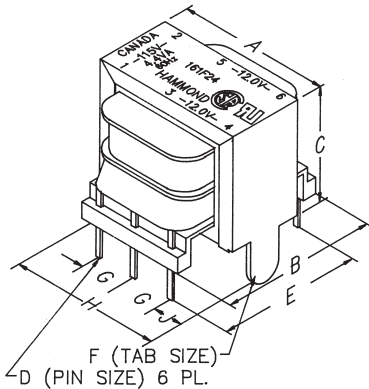
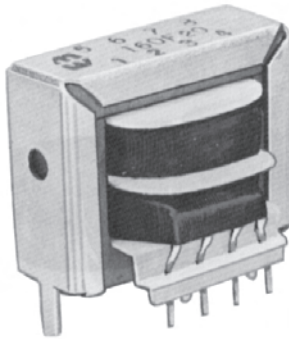
## 229 SERIES LOW PROFILE POWER TRANSFORMERS

| Cat. No. | VA Size | Secondary  |      |          |      | Net Price |
|----------|---------|------------|------|----------|------|-----------|
|          |         | Series     |      | Parallel |      |           |
|          |         | Volts (ct) | mA   | Volts    | mA   |           |
| 229 E10  | 2       | 10         | 250  | 5        | 500  | \$16.55   |
| 229 A10  | 6       | 10         | 600  | 5        | 1200 | 17.27     |
| 229 B10  | 12      | 10         | 1200 | 5        | 2400 | 22.73     |
| 229 C10  | 24      | 10         | 2400 | 5        | 4800 | 25.45     |
| 229 D10  | 48      | 10         | 4800 | 5        | 9600 | 28.18     |
| 229 E12  | 2       | 12.6       | 200  | 6.3      | 400  | 16.55     |
| 229 A12  | 6       | 12.6       | 450  | 6.3      | 900  | 17.27     |
| 229 B12  | 12      | 12.6       | 900  | 6.3      | 1800 | 22.73     |
| 229 C12  | 24      | 12.6       | 1900 | 6.3      | 3800 | 25.45     |
| 229 D12  | 48      | 12.6       | 3800 | 6.3      | 7600 | 28.18     |
| 229 E16  | 2       | 16         | 150  | 8        | 300  | 16.55     |
| 229 A16  | 6       | 16         | 350  | 8        | 700  | 17.27     |
| 229 B16  | 12      | 16         | 700  | 8        | 1400 | 22.73     |
| 229 C16  | 24      | 16         | 1500 | 8        | 3000 | 25.45     |
| 229 D16  | 48      | 16         | 3000 | 8        | 6000 | 28.18     |
| 229 E20  | 2       | 20         | 125  | 10       | 250  | 16.55     |
| 229 A20  | 6       | 20         | 300  | 10       | 600  | 17.27     |
| 229 B20  | 12      | 20         | 600  | 10       | 1200 | 22.73     |
| 229 C20  | 24      | 20         | 1200 | 10       | 2400 | 25.45     |
| 229 D20  | 48      | 20         | 2400 | 10       | 4800 | 28.18     |
| 229 E24  | 2       | 24         | 100  | 12       | 200  | 16.55     |
| 229 A24  | 6       | 24         | 250  | 12       | 500  | 17.27     |
| 229 B24  | 12      | 24         | 500  | 12       | 1000 | 22.73     |
| 229 C24  | 24      | 24         | 1000 | 12       | 2000 | 25.45     |
| 229 D24  | 48      | 24         | 2000 | 12       | 4000 | 28.18     |
| 229 E30  | 2       | 30         | 85   | 15       | 170  | 16.55     |
| 229 A30  | 6       | 30         | 200  | 15       | 400  | 17.27     |
| 229 B30  | 12      | 30         | 400  | 15       | 800  | 22.73     |
| 229 C30  | 24      | 30         | 800  | 15       | 1600 | 25.45     |
| 229 D30  | 48      | 30         | 1600 | 15       | 3200 | 28.18     |
| 229 E34  | 2       | 34         | 75   | 17       | 150  | 16.55     |
| 229 A34  | 6       | 34         | 170  | 17       | 340  | 17.27     |
| 229 B34  | 12      | 34         | 340  | 17       | 680  | 22.73     |
| 229 C34  | 24      | 34         | 700  | 17       | 1400 | 25.45     |
| 229 D34  | 48      | 34         | 1400 | 17       | 2800 | 28.18     |
| 229 E40  | 2       | 40         | 60   | 20       | 120  | 16.55     |
| 229 A40  | 6       | 40         | 150  | 20       | 300  | 17.27     |
| 229 B40  | 12      | 40         | 300  | 20       | 600  | 22.73     |
| 229 C40  | 24      | 40         | 600  | 20       | 1200 | 25.45     |
| 229 D40  | 48      | 40         | 1200 | 20       | 2400 | 28.18     |

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## 229 SERIES LOW PROFILE POWER TRANSFORMERS

| Cat. No. | VA Size | Secondary  |     |          |      | Net Price |
|----------|---------|------------|-----|----------|------|-----------|
|          |         | Series     |     | Parallel |      |           |
|          |         | Volts (ct) | mA  | Volts    | mA   |           |
| 229 E56  | 2       | 56         | 45  | 28       | 90   | \$16.55   |
| 229 A56  | 6       | 56         | 100 | 28       | 200  | 17.27     |
| 229 B56  | 12      | 56         | 200 | 28       | 400  | 22.73     |
| 229 C56  | 24      | 56         | 425 | 28       | 850  | 25.45     |
| 229 D56  | 48      | 56         | 850 | 28       | 1700 | 28.18     |
| 229 E88  | 2       | 88         | 28  | 44       | 56   | 16.55     |
| 229 A88  | 6       | 88         | 65  | 44       | 130  | 17.27     |
| 229 B88  | 12      | 88         | 130 | 44       | 260  | 22.73     |
| 229 A120 | 6       | 120        | 50  | 60       | 100  | 17.27     |
| 229 E120 | 2       | 120        | 20  | 60       | 40   | 16.55     |
| 229 B120 | 12      | 120        | 100 | 60       | 200  | 22.73     |
| 229 E230 | 2       | 230        | 10  | 115      | 20   | 16.55     |
| 229 A230 | 6       | 230        | 25  | 115      | 50   | 17.27     |
| 229 B230 | 12      | 230        | 50  | 115      | 100  | 22.73     |



## LOW VOLTAGE RECTIFIER TRANSFORMERS, OPEN—P.C. MOUNTING 160/161 SERIES

- Vertical mount, split bobbin design
- Dual winding secondaries, non-concentrically wound
- Suitable for single or dual bridge or full-wave centre-tap rectifier circuits
- Winding to pin arrangements allow for easy P.C. board layouts
- Ratings interchangeable with current design practice in the industry
- Insulated for hi-pot of 2,000 V RMS
- 160 Series—115/230 volts, 50/60Hz using split bobbin 8-pins—no electrostatic shield necessary
- 161 Series—115 volts, 60Hz—satisfies majority of needs
- CSA certified (File #LR3902) and UL recognized (File #E50394)

## DIMENSIONS (ALL DIMENSIONS IN INCHES.)

| (VA) Size | A     | B     | C     | D           | E    | F           | G    | H     | J    |
|-----------|-------|-------|-------|-------------|------|-------------|------|-------|------|
| 0.5       | 1.00  | 0.94  | 0.84  | .025 SQ.    | 0.78 | N/A         | 0.20 | N/A   | N/A  |
| 1.0       | 1.00  | 1.375 | 0.83  | .018 x .041 | 1.20 | N/A         | 0.20 | N/A   | N/A  |
| 1.2       | 1.38  | 1.19  | 1.22  | .018 x .041 | 1.00 | N/A         | 0.20 | N/A   | N/A  |
| 4.4       | 1.69  | 1.25  | 1.45  | .018 x .041 | 1.10 | .125 x .030 | 0.25 | 1.671 | .436 |
| 10.0      | 1.94  | 1.44  | 1.69  | .018 x .041 | 1.30 | .188 x .030 | 0.25 | 1.891 | .546 |
| 24.0      | 1.625 | 2.25  | 1.375 | .018 x .041 | 2.10 | N/A         | 0.25 | N/A   | N/A  |

## 160/161 SERIES P.C. MOUNTED LOW VOLTAGE RECTIFIER TRANSFORMERS

| Cat. No. | Secondary  |    |          |    | Size (VA) | Net Price |
|----------|------------|----|----------|----|-----------|-----------|
|          | Series     |    | Parallel |    |           |           |
|          | Volts (ct) | mA | Volts    | mA |           |           |

### PRIMARY SINGLE 115V

|         |      |      |     |      |      |         |
|---------|------|------|-----|------|------|---------|
| 161C10  | 10   | 50   | 5   | 100  | .5   | \$12.73 |
| 161D10‡ | 10   | 90   | 5   | 180  | 1.0  | 15.45   |
| 161FA10 | 10   | 120  | 5   | 240  | 1.2  | 12.73   |
| 161GA10 | 10   | 440  | 5   | 880  | 4.4  | 13.64   |
| 161J10  | 10   | 1000 | 5   | 2000 | 10.0 | 13.64   |
| 161H10‡ | 10   | 2400 | 5   | 4800 | 24.0 | 26.36   |
| 161C12  | 12.6 | 40   | 6.3 | 80   | .5   | 12.73   |
| 161D12‡ | 12.6 | 70   | 6.3 | 140  | 1.0  | 15.45   |
| 161FA12 | 12.6 | 100  | 6.3 | 200  | 1.2  | 12.73   |
| 161GA12 | 12.6 | 350  | 6.3 | 700  | 4.4  | 13.64   |
| 161K12  | 12.6 | 800  | 6.3 | 1600 | 10.0 | 13.64   |
| 161H12‡ | 12.6 | 2000 | 6.3 | 4000 | 24.0 | 26.36   |
| 161C16  | 16   | 31.3 | 8   | 62.5 | .5   | 12.73   |
| 161D16‡ | 16   | 55   | 8   | 110  | 1.0  | 15.45   |
| 161EA16 | 16   | 75   | 8   | 150  | 1.2  | 11.82   |
| 161FA16 | 16   | 260  | 8   | 520  | 4.4  | 12.73   |
| 161G16  | 16   | 640  | 8   | 1280 | 10.0 | 13.64   |
| 161H16‡ | 16   | 1500 | 8   | 3000 | 24.0 | 26.36   |
| 161D20‡ | 20   | 45   | 10  | 90   | 1.0  | 15.45   |
| 161EA20 | 20   | 60   | 10  | 120  | 1.2  | 11.82   |
| 161FA20 | 20   | 220  | 10  | 440  | 4.4  | 12.73   |
| 161G20  | 20   | 500  | 10  | 1000 | 10.0 | 13.64   |
| 161H20‡ | 20   | 1200 | 10  | 2400 | 24.0 | 26.36   |
| 161D24‡ | 24   | 35   | 12  | 70   | 1.0  | 15.45   |
| 161E24  | 24   | 50   | 12  | 100  | 1.2  | 11.82   |
| 161F24  | 24   | 180  | 12  | 360  | 4.4  | 12.73   |
| 161G24  | 24   | 450  | 12  | 900  | 10.0 | 13.64   |
| 161H24‡ | 24   | 1000 | 12  | 2000 | 24.0 | 26.36   |
| 161D28‡ | 28   | 30   | 14  | 60   | 1.0  | 15.45   |
| 161E28  | 28   | 40   | 14  | 80   | 1.2  | 11.82   |
| 161F28  | 28   | 160  | 14  | 320  | 4.4  | 12.73   |
| 161G28  | 28   | 360  | 14  | 720  | 10.0 | 13.64   |
| 161H28‡ | 28   | 800  | 14  | 1600 | 24.0 | 26.36   |
| 161D34‡ | 34   | 25   | 17  | 50   | 1.0  | 15.45   |
| 161E34  | 34   | 35   | 17  | 70   | 1.2  | 11.82   |
| 161F34  | 34   | 125  | 17  | 250  | 4.4  | 12.73   |
| 161G34  | 34   | 300  | 17  | 600  | 10.0 | 13.64   |
| 161H34‡ | 34   | 700  | 17  | 1400 | 24.0 | 26.36   |
| 161D40‡ | 40   | 20   | 20  | 40   | 1.0  | 15.45   |
| 161E40  | 40   | 30   | 20  | 60   | 1.2  | 11.82   |
| 161F40  | 40   | 110  | 20  | 220  | 4.4  | 12.73   |
| 161G40  | 40   | 250  | 20  | 500  | 10.0 | 13.64   |
| 161H40‡ | 40   | 600  | 20  | 1200 | 24.0 | 26.36   |
| 161D56‡ | 56   | 15   | 28  | 30   | 1.0  | 15.45   |
| 161E56  | 56   | 20   | 28  | 40   | 1.2  | 11.82   |
| 161F56  | 56   | 80   | 28  | 160  | 4.4  | 12.73   |
| 161G56  | 56   | 180  | 28  | 360  | 10.0 | 13.64   |
| 161H56‡ | 56   | 420  | 28  | 840  | 24.0 | 26.36   |

### PRIMARY DUAL 115/230

|         |      |      |     |      |      |       |
|---------|------|------|-----|------|------|-------|
| 160D10‡ | 10   | 90   | 5   | 180  | 1.0  | 18.18 |
| 160F10  | 10   | 120  | 5   | 240  | 1.2  | 13.64 |
| 160G10  | 10   | 440  | 5   | 880  | 4.4  | 14.55 |
| 160J10  | 10   | 1000 | 5   | 2000 | 10.0 | 14.55 |
| 160H10‡ | 10   | 2400 | 5   | 4800 | 24.0 | 27.27 |
| 160D12‡ | 12.6 | 70   | 6.3 | 140  | 1.0  | 18.18 |
| 160F12  | 12.6 | 100  | 6.3 | 200  | 1.2  | 13.64 |
| 160G12  | 12.6 | 350  | 6.3 | 700  | 4.4  | 14.55 |
| 160K12  | 12.6 | 800  | 6.3 | 1600 | 10.0 | 14.55 |
| 160H12‡ | 12.6 | 2000 | 6.3 | 4000 | 24.0 | 27.27 |
| 160D16‡ | 16   | 55   | 8   | 110  | 1.0  | 18.18 |
| 160E16  | 16   | 75   | 8   | 150  | 1.2  | 12.73 |
| 160F16  | 16   | 260  | 8   | 520  | 4.4  | 13.64 |
| 160G16  | 16   | 640  | 8   | 1280 | 10.0 | 14.55 |
| 160H16‡ | 16   | 1500 | 8   | 3000 | 24.0 | 27.27 |
| 160D20‡ | 20   | 45   | 10  | 90   | 1.0  | 18.18 |
| 160E20  | 20   | 60   | 10  | 120  | 1.2  | 12.73 |
| 160F20  | 20   | 220  | 10  | 440  | 4.4  | 13.64 |
| 160G20  | 20   | 500  | 10  | 1000 | 10.0 | 14.55 |
| 160H20‡ | 20   | 1200 | 10  | 2400 | 24.0 | 27.27 |
| 160D24‡ | 24   | 35   | 12  | 70   | 1.0  | 18.18 |
| 160E24  | 24   | 50   | 12  | 100  | 1.2  | 12.73 |
| 160F24  | 24   | 180  | 12  | 360  | 4.4  | 13.64 |
| 160G24  | 24   | 450  | 12  | 900  | 10.0 | 14.55 |
| 160H24‡ | 24   | 1000 | 12  | 2000 | 24.0 | 27.27 |

‡No channel mounting bracket on these sizes.

Continued on next page...