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## Single Phase Transformer Amperage Ratings

| Line Voltage (Volts) | | | | | | |
|---|---|---|---|---|---|---|
| **kVA** | **120** | **240** | **480** | **600** | **2400** | **4160** |
| 3 | 25.0 | 12.5 | 6.25 | 5.00 | 1.25 | 0.72 |
| 5 | 41.7 | 20.8 | 10.4 | 8.33 | 2.08 | 1.20 |
| 7.5 | 62.5 | 31.3 | 15.6 | 12.5 | 31.3 | 1.80 |
| 10 | 83.3 | 41.7 | 20.8 | 16.7 | 4.17 | 2.40 |
| 15 | 125 | 62.5 | 31.3 | 25.0 | 6.25 | 3.61 |
| 25 | 208 | 104 | 52.1 | 41.7 | 10.4 | 6.01 |
| 37.5 | 313 | 156 | 78.1 | 62.5 | 15.6 | 9.01 |
| 50 | 417 | 208 | 104 | 83.3 | 20.8 | 12.0 |
| 75 | 625 | 313 | 156 | 125 | 31.3 | 18.0 |
| 100 | 833 | 417 | 208 | 167 | 41.7 | 24.0 |
| 150 | 1250 | 625 | 313 | 250 | 62.5 | 36.1 |
| 200 | 1667 | 833 | 417 | 333 | 83.3 | 48.1 |
| 250 | 2083 | 1042 | 521 | 417 | 104 | 60.1 |
| 333 | 2775 | 1388 | 694 | 555 | 139 | 80.0 |

## Three Phase Transformer Amperage Ratings

| Line Voltage (Volts) | | | | | | |
|---|---|---|---|---|---|---|
| **kVA** | **208** | **240** | **480** | **600** | **2400** | **4160** |
| 6 | 16.7 | 14.4 | 7.22 | 5.77 | 1.44 | 0.83 |
| 10 | 27.8 | 24.1 | 12.0 | 9.62 | 2.41 | 1.39 |
| 15 | 41.6 | 36.1 | 18.0 | 14.4 | 3.61 | 2.08 |
| 30 | 83.3 | 72.2 | 36.1 | 28.9 | 7.22 | 4.16 |
| 45 | 125 | 108 | 54.1 | 43.3 | 10.8 | 6.25 |
| 50 | 139 | 120 | 60.1 | 48.1 | 12.0 | 6.94 |
| 75 | 208 | 180 | 90.2 | 72.2 | 18.0 | 10.4 |
| 112.5 | 312 | 271 | 135 | 108 | 27.1 | 15.6 |
| 150 | 416 | 361 | 180 | 144 | 36.1 | 20.8 |
| 225 | 625 | 541 | 271 | 217 | 54.1 | 31.2 |
| 300 | 833 | 722 | 361 | 289 | 72.2 | 41.6 |
| 450 | 1249 | 1083 | 541 | 433 | 108 | 62.5 |
| 500 | 1388 | 1203 | 601 | 481 | 120 | 69.4 |
| 600 | 1665 | 1443 | 722 | 577 | 144 | 83.3 |
| 750 | 2082 | 1804 | 902 | 722 | 180 | 104 |
| 1000 | 2776 | 2406 | 1203 | 962 | 241 | 139 |
| 1500 | 4164 | 3608 | 1804 | 1443 | 361 | 208 |
| 2000 | 5551 | 4811 | 2406 | 1925 | 481 | 278 |

$$\text{kVA (1 phase)} = \frac{\text{volts X amps}}{1000} \qquad \text{kVA (3 phases)} = \frac{\text{1,732 X volts X amps}}{1000}$$

$$\text{Amps} = \frac{\text{kVA (1 phase) X 1000}}{\text{volts}} \qquad \text{Amps} = \frac{\text{kVA (3 phase) X 1000}}{\text{1,732 X volts}}$$

## CATALOGUE CODE

| T | 3 | G | 3 | 0 | 1 | 5 | 0 | A | 5 | V | X | X | E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**T = DRY TYPE**
**E = EPOXY**
**D = DRIVE**
**A = AUTO**

**1 = 1 PHASE**
**3 = 3 PHASE**

**PRIMARY VOLTAGE**
**A = 240 V.**
**B = 208 V.**
**C = 380 V.**
**D = 416 V.**
**F = 480 V.**
**G = 600 V.**
**S = special voltage**

**SECONDARY VOLTAGE**
**1 = 120/240 V.**
**2 = 240Y/139 V.**
**3 = 208Y/120 V.**
**4 = 380Y/220 V.**
**5 = 416Y/240 V.**
**6 = 480Y/277 V.**
**7 = 600Y/347V.**
**0 = special voltage**

**kVA RATING**

**TEMPERATURE RISE**
**5 = 150° C**
**1 = 115° C**
**8 = 80° C**

**C = COPPER**
**A = ALUMINUM**

**ELECTRO SHIELD**
**1 = 1x SHEILD**
**2 = 2x SHIELD**
**3 = 3x SHIELD**
**X = NONE**

**V = NEMA 1 C/W DRIP COVER**
**D = NEMA 1 C/W DRIP SHIELD**
**S = NEMA 1 C/W SPRINKLER HOODS**
**R = NEMA 3R**
**W = NEMA 4**
**X = NEMA 4X**
**O = OPEN TYPE (CORE AND COILS ONLY)**

**M = Commercial type NrCan**
**N = Industrial type NrCan**
**NJ = Industrial type NrCan**
**E = C802**
**BLANK = Non-C802**

**K FACTOR**
**K = 4**
**L = 9**
**M = 13**
**N = 20**
**P = 30**
**Q = 40**
**R = 50**
**X = NONE**

# NRCAN Rated General Purpose Transformers

## Commercial Type Aluminum Winding

*Selection*

### Features:

- Available transformer sizes are:
  - Single phase: 15 - 250 kVA
  - Three phase: 15 - 450 kVA
- All winding conductors are in aluminum
- Standard impedance at 60 Hz
- Insulation class 220
- Lugs up to 225 kVA
- Wall mounting brackets up to 75 kVA for three phase
- Standard audible sound level (Meets NEMA ST-20 standards)
- CSA certified (LR3902) and UL listed (E112313)
- 150ºC temperature rise
- Enclosure Type: Heavy duty ventilated Type 3R standard
- Enclosure Finish: ANSI 61 Grey, UL50
- Impedance: Typically 3% to 6.5%

**150ºC Rise - Primary 600 V or 480 V**

| Catalogue Number | kVA | Mounting① | Taps② | Figure③ | Dimensions | | | | | | Weight | | Wiring Diagram |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Height | | Width | | Depth | | | | |
| | | | | | in. | mm | in. | mm | in. | mm | lbs | kg | |
| **Single Phase, Secondary 120 / 240 V** | | | | | | | | | | | | | |
| **T1*10015A5RXXM** | 15 | W/F | 4 X 2.5 | 2 | 24 | 600 | 22 | 561 | 18 | 457 | 160 | 73 | WD1 |
| **T1*10025A5RXXM** | 25 | W/F | 4 X 2.5 | 3 | 26 | 650 | 25 | 632 | 19 | 483 | 225 | 102 | WD1 |
| **T1*10037A5RXXM** | 37.5 | F | 4 X 2.5 | 4 | 31 | 790 | 26 | 668 | 23 | 584 | 310 | 141 | WD1 |
| **T1*10050A5RXXM** | 50 | F | 4 X 2.5 | 4 | 31 | 790 | 26 | 668 | 23 | 584 | 370 | 168 | WD1 |
| **T1*10075A5RXXM** | 75 | F | 4 X 2.5 | 5 | 39 | 993 | 29 | 737 | 27 | 686 | 450 | 205 | WD1 |
| **T1*10100A5RXXM** | 100 | F | 4 X 2.5 | 5 | 39 | 993 | 29 | 737 | 27 | 686 | 560 | 255 | WD1 |
| **T1*10150A5RXXM** | 150 | F | 4 X 2.5 | 6 | 48 | 1219 | 38 | 960 | 30 | 762 | 820 | 373 | WD2 |
| **T1*10200A5RXXM** | 200 | F | 4 X 2.5 | 6 | 48 | 1219 | 38 | 960 | 30 | 762 | 1000 | 455 | WD2 |
| **T1*10250A5RXXM** | 250 | F | 4 X 2.5 | 7 | 56 | 1425 | 42 | 1062 | 36 | 914 | 1300 | 591 | WD2 |
| **Three Phase, Secondary 208 Y / 120 V** | | | | | | | | | | | | | |
| **T3*30015A5RXXM** | 15 | W/F | 4 X 2.5 | 1 | 18 | 447 | 20 | 511 | 18 | 457 | 165 | 75 | WD3 |
| **T3*30030A5RXXM** | 30 | W/F | 4 X 2.5 | 2 | 24 | 600 | 22 | 561 | 18 | 457 | 285 | 130 | WD3 |
| **T3*30045A5RXXM** | 45 | W/F | 4 X 2.5 | 3 | 26 | 650 | 25 | 635 | 19 | 483 | 345 | 157 | WD3 |
| **T3*30075A5RXXM** | 75 | F | 4 X 2.5 | 4 | 31 | 993 | 26 | 668 | 23 | 584 | 540 | 245 | WD3 |
| **T3*30112A5RXXM** | 112.5 | F | 4 X 2.5 | 5 | 39 | 993 | 29 | 737 | 27 | 686 | 750 | 341 | WD3 |
| **T3*30150A5RXXM** | 150 | F | 4 X 2.5 | 5 | 39 | 993 | 29 | 737 | 27 | 686 | 885 | 403 | WD3 |
| **T3*30225A5RXXM** | 225 | F | 4 X 2.5 | 6 | 49 | 1229 | 38 | 960 | 30 | 762 | 1500 | 682 | WD3 |
| **T3*30300A5RXXM** | 300 | F | 4 X 2.5 | 6 | 49 | 1229 | 38 | 960 | 30 | 762 | 1750 | 795 | WD3 |
| **T3G30450A5RXXM** | 450 | F | 4 X 2.5 | 7 | 56 | 1422 | 42 | 1067 | 36 | 914 | 2400 | 1091 | WD4 |

* Primary Voltage – F = 480V, G = 600V. See page 7-3 for Catalogue Code Detail.

① W = Wall mount F = Floor mount

② Taps: Single phase: 15-250 kVA - 2 x FCAN, 2 x FCBN
Three phase: 15-450 kVA - 2 x FCAN, 2 x FCBN

③ Please refer to enclosure figures on page 7-23

All weights and dimensions are approximate and subject to change without notice.

# NRCAN Rated General Purpose Transformers

## Commercial Type Copper Winding



Features:

- Available transformer sizes are:
  - Single phase: 15 - 250 kVA
  - Three phase: 15 - 450 kVA
- All winding conductors are aluminum
- Standard impedance at 60 Hz
- Insulation class 220
- Lugs up to 225 kVA
- Wall mounting brackets up to 75 kVA for three phase
- Standard audible sound level (Meets NEMA ST-20 standards)
- CSA certified (LR3902) and UL listed (E112313)
- 150°C temperature rise
- Enclosure Type: Heavy duty ventilated Type 3R standard
- Enclosure Finish: ANSI 61 Grey, UL50
- Impedance: Typically 3% to 6.5%

### 150°C Rise - Primary 600 V or 480 V

| Catalogue Number | kVA | Mounting① | Taps② | Figure③ | Dimensions | | | | | | Weight | | Wiring Diagram |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Height | | Width | | Depth | | | | |
| | | | | | in. | mm | in. | mm | in. | mm | lbs | kg | |
| **Single Phase, Secondary 120 / 240 V** | | | | | | | | | | | | | |
| **T1*10015C5RXXM** | 15 | W/F | 4 X 2.5 | 2 | 24 | 600 | 22 | 561 | 18 | 457 | 165 | 75 | WD1 |
| **T1*10025C5RXXM** | 25 | W/F | 4 X 2.5 | 3 | 26 | 650 | 25 | 632 | 19 | 483 | 240 | 109 | WD1 |
| **T1*10037C5RXXM** | 37.5 | W/F | 4 X 2.5 | 4 | 31 | 790 | 26 | 668 | 23 | 584 | 340 | 155 | WD1 |
| **T1*10050C5RXXM** | 50 | F | 4 X 2.5 | 4 | 31 | 790 | 26 | 668 | 23 | 584 | 390 | 177 | WD1 |
| **T1*10075C5RXXM** | 75 | F | 4 X 2.5 | 5 | 39 | 993 | 29 | 737 | 27 | 686 | 540 | 245 | WD1 |
| **T1*10100C5RXXM** | 100 | F | 4 X 2.5 | 5 | 39 | 993 | 29 | 737 | 27 | 686 | 650 | 295 | WD1 |
| **T1*10150C5RXXM** | 150 | F | 4 X 2.5 | 6 | 48 | 1219 | 38 | 960 | 30 | 762 | 960 | 436 | WD2 |
| **T1*10200C5RXXM** | 200 | F | 4 X 2.5 | 6 | 48 | 1219 | 38 | 960 | 30 | 762 | 1080 | 491 | WD2 |
| **T1*10250C5RXXM** | 250 | F | 4 X 2.5 | 7 | 56 | 1425 | 42 | 1062 | 36 | 914 | 1440 | 655 | WD2 |
| **Three Phase, Seconday 208 Y / 120 V** | | | | | | | | | | | | | |
| **T3*30015C5RXXM** | 15 | W/F | 4 X 4.5 | 1 | 18 | 447 | 20 | 511 | 18 | 457 | 185 | 84 | WD3 |
| **T3*30030C5RXXM** | 30 | W/F | 4 X 2.5 | 2 | 24 | 600 | 22 | 561 | 18 | 457 | 300 | 136 | WD3 |
| **T3*30045C5RXXM** | 45 | W/F | 4 X 2.5 | 3 | 26 | 650 | 25 | 635 | 19 | 483 | 390 | 177 | WD3 |
| **T3*30075C5RXXM** | 75 | W/F | 4 X 2.5 | 4 | 31 | 993 | 26 | 668 | 23 | 584 | 635 | 289 | WD3 |
| **T3*30112C5RXXM** | 112.5 | F | 4 X 2.5 | 5 | 39 | 993 | 29 | 737 | 27 | 686 | 815 | 370 | WD3 |
| **T3*30150C5RXXM** | 150 | F | 4 X 2.5 | 5 | 39 | 993 | 29 | 737 | 27 | 686 | 980 | 445 | WD3 |
| **T3*30225C5RXXM** | 225 | F | 4 X 2.5 | 6 | 48 | 1229 | 38 | 960 | 30 | 762 | 1600 | 727 | WD3 |
| **T3*30300C5RXXM** | 300 | F | 4 X 2.5 | 6 | 48 | 1229 | 38 | 960 | 30 | 762 | 1850 | 841 | WD3 |
| **T3*30450C5RXXM** | 450 | F | 4 X 2.5 | 7 | 56 | 1422 | 42 | 1067 | 36 | 914 | 3000 | 1364 | WD4 |

* Primary Voltage – F = 480V, G = 600V. See page 7-3 for Catalogue Code Detail.

① W = Wall mount F = Floor mount
② Taps: Single phase: 15-250 kVA - 2 x FCAN, 2 x FCBN
Three phase: 15-450 kVA - 2 x FCAN, 2 x FCBN
③ Please refer to enclosure figures on page 7-21 and 7-22

All weights and dimensions are approximate and subject to change without notice.

# NRCAN Rated General Purpose Transformers

## Industrial Type Aluminum Winding

*Selection*

### Features:

- 15 - 250 kVA single phase
  15 - 450 kVA three phase
- Aluminum winding -
  (standard 3 coil delta-wye three phase)
- High quality grain-oriented steel laminations
- Insulation class 220
- Compact and easy-to-install enclosure
- Quiet operation and adequate ventilation
- Epoxy Vacuum Impregnated (EVI)
- Manufactured to ISO standards upon request

### Options and Accessories:

- Electrostatic shield
- Special paint (other than ASA 61 grey)
- 115°C and 80°C temperature rise
- Operating frequencies other than 60 Hertz
- Special voltage (for domestic or export applications)
- Low loss and low noise special designs
- Anti-vibration pads
- Temperature probes
- Busbar to your specifications

**150°C Rise - Primary 600 V or 480 V**

| Catalogue Number | kVA | Montage① | Prises② | Dimensions | | | | | | | | Noise level (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Height | | Width | | Depth | | Weight | | |
| | | | | in. | mm | in. | mm | in. | mm | lbs | kg | |
| **Single Phase. Secondary 120 / 240 V** | | | | | | | | | | | | |
| **T1*10015A5RXXN** | 15 | W/F | 4 X 2.5 | 30 | 762 | 18 | 457 | 14 | 349 | 169 | 77 | 50 |
| **T1*10025A5RXXN** | 25. | W/F | 4 X 2.5 | 33 | 838 | 21 | 533 | 16 | 400 | 227 | 103 | 50 |
| **T1*10037A5RXXN** | 37.5 | W/F | 4 X 2.5 | 33 | 838 | 21 | 533 | 16 | 400 | 277 | 126 | 50 |
| **T1*10050A5RXXN** | 50. | W/F | 4 X 2.5 | 33 | 838 | 21 | 533 | 16 | 400 | 350 | 159 | 50 |
| **T1*10075A5RXXN** | 75 | F | 4 X 2.5 | 47 | 1194 | 24 | 616 | 23 | 583 | 486 | 221 | 55 |
| **T1*10100A5RXXN** | 100. | F | 4 X 2.5 | 47 | 1194 | 24 | 616 | 23 | 583 | 572 | 260 | 55 |
| **T1*10150A5RXXN** | 150 | F | 4 X 2.5 | 51 | 1 295 | 28 | 718 | 27 | 685 | 814 | 370 | 60 |
| **T1*10200A5RXXN** | 200 | F | 4 X 2.5 | 58 | 1 473 | 32 | 820 | 30 | 761 | 1 109 | 504 | 65 |
| **T1*10250A5RXXN** | 250 | F | 4 X 2.5 | 58 | 1 473 | 32 | 820 | 30 | 761 | 1 265 | 575 | 65 |
| **Three Phase. Secondary 208 Y / 120 V** | | | | | | | | | | | | |
| **T3*30015A5RXXN** | 15 | W/F | 4 X 2.5 | 26 | 660 | 18 | 464 | 15 | 375 | 207 | 94 | 45 |
| **T3*30030A5RXXN** | 30. | W/F | 4 X 2.5 | 31 | 775 | 23 | 578 | 18 | 451 | 335 | 152 | 45 |
| **T3*30045A5RXXN** | 45. | W/F | 4 X 2.5 | 31 | 775 | 23 | 578 | 18 | 451 | 381 | 173 | 45 |
| **T3*30075A5RXXN** | 75. | F | 4 X 2.5 | 31 | 775 | 23 | 578 | 18 | 451 | 396 | 180 | 50 |
| **T3*30112A5RXXN** | 112.5 | F | 4 X 2.5 | 37 | 940 | 28 | 705 | 22 | 552 | 596 | 270 | 50 |
| **T3*30150A5RXXN** | 150. | F | 4 X 2.5 | 37 | 940 | 28 | 705 | 22 | 552 | 734 | 333 | 50 |
| **T3*30225A5RXXN** | 225 | F | 4 X 2.5 | 46 | 1 168 | 31 | 787 | 24 | 616 | 1 092 | 495 | 55 |
| **T3*30300A5RXXN** | 300 | F | 4 X 2.5 | 53 | 1 346 | 37 | 927 | 29 | 724 | 1 635 | 742 | 55 |
| **T3*30450A5RXXN** | 450 | F | 4 X 2.5 | 53 | 1 346 | 37 | 927 | 29 | 724 | 2 176 | 987 | 55 |
| **T3*30500A5RXXN** | 500 | **CONSULT CUSTOMER SERVICE** | | | | | | | | | | |
| **T3*30600A5RXXN** | 600 | | | | | | | | | | | |
| **T3*30750A5RXXN** | 750 | | | | | | | | | | | |
| **T3*31000A5RXXN** | 1 000 | | | | | | | | | | | |

* Primary Voltage – F = 480V, G = 600V. See page 7-3 for Catalogue Code Detail.

① W = Wall mount F = Floor mount

② Taps: Single phase: 15-250 kVA - 2 x FCAN, 2 x FCBN
Three phase: 15-1000 kVA - 2 x FCAN, 2 x FCBN

All weights and dimensions are approximate and subject to change without notice.

# NRCAN Rated General Purpose Transformers

## Industrial Type Aluminium Winding



Features:

- Large connection compartment for ease of wiring and installation
- Many sizes in stock and available for immediate shipment
- Quiet operation for installation flexibility
- Seismic certification for all units
- Space-saving design for easy handling and installation
- Termination lugs provided with transformer through 75 kVA
- Wall brackets available for units up to 75kVA
- Vibration isolation pads provide quiet operation
- Staggered front loop taps for easy connection
- CSA certified (163067) and UL listed (E78376)

**150°C Rise - Primary 600V or 480V①**

| Catalogue Number | kVA | Mounting | Enclosure Figure④ | Dimensions④ A inch | A mm | B inch | B mm | C inch | C mm | D inch | D mm | E inch | E mm | Weight lbs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Three Phase, 480V Primary, 208Y / 120 Secondary②** | | | | | | | | | | | | | | |
| **T3F30015A5RXXNJ** | 15 | W/F | 8 | 22 | 559 | 19 | 483 | 21 | 533 | 16 | 401 | 12 | 305 | 235 |
| **T3F30030A5RXXNJ** | 30 | W/F | 8 | 25 | 635 | 22 | 559 | 22 | 559 | 18 | 460 | 13 | 330 | 365 |
| **T3F30045A5RXXNJ** | 45 | W/F | 8 | 28 | 711 | 25 | 635 | 23.5 | 597 | 20 | 495 | 14.5 | 368 | 455 |
| **T3F30075A5RXXNJ** | 75 | W/F | 8 | 32 | 813 | 27 | 686 | 26 | 660 | 24 | 597 | 16 | 406 | 735 |
| **T3F30112A5RXXNJ** | 112.5 | F | 8 | 38 | 965 | 29 | 737 | 29 | 737 | 26 | 648 | 18 | 457 | 885 |
| **T3F30150A5RXXNJ** | 150 | F | 8 | 42 | 1067 | 33 | 838 | 32.5 | 826 | 30 | 762 | 21 | 533 | 1140 |
| **T3F30225A5RXXNJ** | 225 | F | 8 | 46 | 1168 | 35 | 889 | 37 | 940 | 31 | 782 | 25 | 635 | 1530 |
| **T3F30300A5RXXNJ** | 300 | F | 8 | 52 | 1321 | 35 | 889 | 37 | 940 | 31 | 782 | 25 | 635 | 1935 |
| **Three Phase, 600V Primary, 208Y / 120 Secondary③** | | | | | | | | | | | | | | |
| **T3G30015A5RXXNJ** | 15 | W/F | 8 | 22 | 559 | 19 | 483 | 21 | 533 | 15.8 | 401 | 12 | 305 | 215 |
| **T3G30030A5RXXNJ** | 30 | W/F | 8 | 25 | 635 | 22 | 559 | 22 | 559 | 18.1 | 460 | 13 | 330 | 330 |
| **T3G30045A5RXXNJ** | 45 | W/F | 8 | 28 | 711 | 25 | 635 | 23.5 | 597 | 19.5 | 495 | 14.5 | 368 | 455 |
| **T3G30075A5RXXNJ** | 75 | W/F | 8 | 32 | 813 | 27 | 686 | 26 | 660 | 23.5 | 597 | 16 | 406 | 735 |
| **T3G30112A5RXXNJ** | 112.5 | F | 8 | 38 | 965 | 29 | 737 | 29 | 737 | 25.5 | 648 | 18 | 457 | 885 |
| **T3G30150A5RXXNJ** | 150 | F | 8 | 42 | 1067 | 33 | 838 | 32.5 | 826 | 30 | 762 | 21 | 533 | 1140 |
| **T3G30225A5RXXNJ** | 225 | F | 8 | 46 | 1168 | 35 | 889 | 37 | 940 | 30.8 | 782 | 25 | 635 | 1530 |
| **T3G30300A5RXXNJ** | 300 | F | 8 | 52 | 1321 | 35 | 889 | 37 | 940 | 30.8 | 782 | 25 | 635 | 1935 |

① Taps: 480v primary: FCAN 2@2.5%, FCBN 4@2.5%
600v primary: FCAN 2@2.5%, FCBN 4@2.5%
② See wiring diagram WD6 (page 7-20)
③ See wiring diagram WD5 (page 7-20)
④ Please refer to enclosure figure on page 7-23 (Fig. 8)

# NRCAN Rated General Purpose Transformers

## Industrial Type Copper Winding



### Features:

- 15-250 kVA single phase
  15-300 kVA three phase
- Copper winding
  (standard 3 coil delta-wye three phase)
- High quality grain-oriented steel laminations
- Insulation class 220
- Compact and easy-to-install enclosure
- Quiet operation and adequate ventilation
- Manufactured to ISO standard upon request
- Epoxy Vacuum Impregnated (EVI)

### Options and Accessories:

- Electrostatic shield
- Special paint (other than ASA 61 grey)
- 115°C and 80°C temperature rise
- Operating frequencies other than 60 Hertz
- Special voltage (for domestic or export applications)
- Low loss and low noise special designs
- Anti-vibration pads
- Temperature probes
- Busbar to your specifications

**150°C Rise - Primary 600 V or 480 V**

| Catalogue Number | kVA | Mounting① | Taps② | Dimensions | | | | | | Weight | | Noise level (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Height | | Width | | Depth | | | | |
| | | | | in. | mm | in. | mm | in. | mm | lbs | kg | |
| **Single Phase, Secondary 120 / 240 V** | | | | | | | | | | | | |
| **T1*10015C5RXXN** | 15 | W/F | 4 X 2.5 | 30 | 762 | 18 | 457 | 14 | 349 | 185 | 84 | 50 |
| **T1*10025C5RXXN** | 25 | W/F | 4 X 2.5 | 30 | 762 | 18 | 457 | 14 | 349 | 227 | 103 | 50 |
| **T1*10037C5RXXN** | 37.5 | F | 4 X 2.5 | 33 | 838 | 21 | 533 | 16 | 400 | 321 | 146 | 50 |
| **T1*10050C5RXXN** | 50 | F | 4 X 2.5 | 33 | 838 | 21 | 533 | 16 | 400 | 352 | 160 | 50 |
| **T1*10075C5RXXN** | 75 | F | 4 X 2.5 | 33 | 838 | 21 | 533 | 16 | 400 | 453 | 206 | 55 |
| **T1*10100C5RXXN** | 100 | F | 4 X 2.5 | 47 | 1194 | 25 | 616 | 23 | 583 | 631 | 287 | 55 |
| **T1*10150C5RXXN** | 150 | F | 4 X 2.5 | 51 | 1295 | 28 | 718 | 27 | 685 | 805 | 366 | 60 |
| **T1*10200C5RXXN** | 200 | F | 4 X 2.5 | 51 | 1295 | 28 | 718 | 27 | 685 | 1043 | 474 | 65 |
| **T1*10250C5RXXN** | 250 | F | 4 X 2.5 | 58 | 1473 | 32 | 820 | 30 | 761 | 1342 | 610 | 65 |

**Three Phase, Seconday 208 Y / 120 V**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **T3*30015C5RXXN** | 15 | W/F | 4 X 2.5 | 26 | 660 | 18 | 464 | 15 | 375 | 214 | 97 | 45 |
| **T3*30030C5RXXN** | 30 | W/F | 4 X 2.5 | 31 | 775 | 23 | 578 | 18 | 451 | 341 | 155 | 45 |
| **T3*30045C5RXXN** | 45 | W/F | 4 X 2.5 | 31 | 775 | 23 | 578 | 18 | 451 | 407 | 185 | 45 |
| **T3*30050C5RXXN** | 50 | W/F | 4 X 2.5 | 31 | 775 | 23 | 578 | 18 | 451 | 441 | 200 | 45 |
| **T3*30075C5RXXN** | 75 | W/F | 4 X 2.5 | 37 | 940 | 28 | 705 | 22 | 552 | 674 | 306 | 50 |
| **T3*30112C5RXXN** | 112.5 | F | 4 X 2.5 | 37 | 940 | 28 | 705 | 22 | 552 | 978 | 398 | 50 |
| **T3*30150C5RXXN** | 150 | F | 4 X 2.5 | 46 | 1168 | 31 | 787 | 24 | 616 | 1069 | 485 | 50 |
| **T3*30225C5RXXN** | 225 | F | 4 X 2.5 | 53 | 1346 | 37 | 927 | 29 | 724 | 1533 | 695 | 55 |
| **T3*30300C5RXXN** | 300 | F | 4 X 2.5 | 53 | 1346 | 37 | 927 | 29 | 724 | 1843 | 836 | 55 |

* Primary Voltage – F = 480V, G = 600V. See page 7-3 for Catalogue Code Detail.

① W = Wall mount F = Floor mount

② Taps: Single phase: 15-250 kVA - 2 x FCAN, 2 x FCBN
Three phase: 15-300 kVA - 2 x FCAN, 2 x FCBN

All weights and dimensions are approximate and subject to change without notice.

# NRCAN Rated General Purpose Transformers

## Industrial Type Copper Winding



Features:

- Large connection compartment for ease of wiring and installation
- Many sizes in stock and available for immediate shipment
- Quiet operation for installation flexibility
- Seismic certification for all units
- Space-saving design for easy handling and installation
- Termination lugs provided with transformer through 75 kVA
- Wall brackets available for units up to 75 kVA
- Vibration isolation pads provide quiet operation
- Staggered front loop taps for easy connection

**150°C Rise - Primary 600V or 480V①**

| Catalogue Number | kVA | Mounting | Enclosure Figure④ | Dimensions④ A inch | A mm | B inch | B mm | C inch | C mm | D inch | D mm | E inch | E mm | Weight lbs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Three Phase, 480V Primary, 208 Y / 120 Secondary②** | | | | | | | | | | | | | | |
| **T3F30015C5RXXNJ** | 15 | W/F | 8 | 22 | 559 | 19 | 483 | 21 | 533 | 16 | 401 | 12 | 305 | 235 |
| **T3F30030C5RXXNJ** | 30 | W/F | 8 | 25 | 635 | 22 | 559 | 22 | 559 | 18 | 460 | 13 | 330 | 365 |
| **T3F30045C5RXXNJ** | 45 | W/F | 8 | 28 | 711 | 25 | 635 | 23.5 | 597 | 20 | 495 | 14.5 | 368 | 455 |
| **T3F30075C5RXXNJ** | 75 | W/F | 8 | 32 | 813 | 27 | 686 | 26 | 660 | 23.5 | 597 | 16 | 406 | 735 |
| **T3F30112C5RXXNJ** | 112.5 | F | 8 | 38 | 965 | 29 | 737 | 29 | 737 | 26 | 648 | 18 | 457 | 885 |
| **T3F30150C5RXXNJ** | 150 | F | 8 | 42 | 1067 | 33 | 838 | 32.5 | 826 | 30 | 762 | 21 | 533 | 1140 |
| **T3F30225C5RXXNJ** | 225 | F | 8 | 46 | 1168 | 35 | 889 | 37 | 940 | 31 | 782 | 25 | 635 | 1530 |
| **T3F30300C5RXXNJ** | 300 | F | 8 | 52 | 1321 | 35 | 889 | 37 | 940 | 31 | 782 | 25 | 635 | 1935 |
| **Three Phase, 600V Primary, 208 Y / 120 Secondary③** | | | | | | | | | | | | | | |
| **T3G30015C5RXXNJ** | 15 | W/F | 8 | 22 | 559 | 19 | 482.6 | 21 | 533 | 16 | 401 | 12 | 305 | 235 |
| **T3G30030C5RXXNJ** | 30 | W/F | 8 | 25 | 635 | 22 | 558.8 | 22 | 559 | 18 | 460 | 13 | 330 | 365 |
| **T3G30045C5RXXNJ** | 45 | W/F | 8 | 28 | 711 | 25 | 635 | 23.5 | 597 | 20 | 495 | 14.5 | 368 | 455 |
| **T3G30075C5RXXNJ** | 75 | F | 8 | 32 | 813 | 27 | 685.8 | 26 | 660 | 23.5 | 597 | 16 | 406 | 735 |
| **T3G30112C5RXXNJ** | 112.5 | F | 8 | 38 | 965 | 29 | 736.6 | 29 | 737 | 26 | 648 | 18 | 457 | 885 |
| **T3G30150C5RXXNJ** | 150 | F | 8 | 42 | 1067 | 33 | 838.2 | 32.5 | 826 | 30 | 762 | 21 | 533 | 1140 |
| **T3G30225C5RXXNJ** | 225 | F | 8 | 46 | 1168 | 35 | 889 | 37 | 940 | 31 | 782 | 25 | 635 | 1530 |
| **T3G30300C5RXXNJ** | 300 | F | 8 | 52 | 1321 | 35 | 889 | 37 | 940 | 31 | 782 | 25 | 635 | 1935 |

① Taps: 480v primary: FCAN 2@2.5%, FCBN 4@2.5%
600v primary: FCAN 2@2.5%, FCBN 4@2.5%
② See wiring diagram WD6 (page 7-20)
③ See wiring diagram WD5 (page 7-20)
④ Please refer to enclosure figure on page 7-23 (Fig. 8)

# NRCAN Rated General Purpose Transformers

## K Rated - Industrial Type Aluminium Winding

*Selection*

Features:

- Large connection compartment for ease of wiring and installation
- Many sizes in stock and available for immediate shipment
- Quiet operation for installation flexibility
- Seismic certification for all units
- Space-saving design for easy handling and installation
- Termination lugs provided with transformer through 75 kVA
- Wall brackets available for units up to 75 kVA
- Vibration isolation pads provide quiet operation
- Staggered front loop taps for easy connection
- CSA certified (163067) and UL listed (E78376)

**150°C Rise - Primary 600V①**

| Catalogue Number | kVA | Mounting | Enclosure Figure | Dimensions④ A inch | A mm | B inch | B mm | C inch | C mm | D inch | D mm | E inch | E mm | Weight lbs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Three Phase, 208Y / 120 Secondary, K-4 Rated②** | | | | | | | | | | | | | | |
| **T3G30015A5R1KNJ** | 15 | W/F | 8 | 22 | 559 | 19 | 483 | 21 | 533 | 16 | 401 | 12 | 305 | 210 |
| **T3G30030A5R1KNJ** | 30 | W/F | 8 | 25 | 635 | 22 | 559 | 22 | 559 | 18 | 460 | 13 | 330 | 310 |
| **T3G30045A5R1KNJ** | 45 | W/F | 8 | 28 | 711 | 25 | 635 | 23.5 | 597 | 20 | 495 | 14.5 | 368 | 400 |
| **T3G30075A5R1KNJ** | 75 | F | 8 | 32 | 813 | 27 | 686 | 26 | 660 | 24 | 597 | 16 | 406 | 585 |
| **T3G30112A5R1KNJ** | 112.5 | F | 8 | 38 | 965 | 29 | 737 | 29 | 737 | 26 | 648 | 18 | 457 | 775 |
| **T3G30150A5R1KNJ** | 150 | F | 8 | 42 | 1067 | 33 | 838 | 32.5 | 826 | 30 | 762 | 21 | 533 | 1000 |
| **T3G30225A5R1KNJ** | 225 | F | 8 | 52 | 1321 | 35 | 889 | 37 | 940 | 31 | 782 | 25 | 635 | 1315 |
| **T3G30300A5R1KNJ** | 300 | F | 8 | 60 | 1524 | 48 | 1219 | 43.5 | 1105 | 42 | 1067 | 27 | 686 | 1660 |
| **Three Phase, 208Y / 120 Secondary, K-13 Rated③** | | | | | | | | | | | | | | |
| **T3G30015A5R1MNJ** | 15 | W/F | 8 | 25 | 635 | 22 | 559 | 22 | 559 | 18 | 460 | 13 | 330 | 310 |
| **T3G30030A5R1MNJ** | 30 | W/F | 8 | 28 | 711 | 25 | 635 | 23.5 | 597 | 20 | 495 | 14.5 | 368 | 400 |
| **T3G30045A5R1MNJ** | 45 | W/F | 8 | 32 | 813 | 27 | 686 | 26 | 660 | 24 | 597 | 16 | 406 | 585 |
| **T3G30075A5R1MNJ** | 75 | F | 8 | 38 | 965 | 29 | 737 | 29 | 737 | 26 | 648 | 18 | 457 | 775 |
| **T3G30112A5R1MNJ** | 112.5 | F | 8 | 42 | 1067 | 33 | 838 | 32.5 | 826 | 30 | 762 | 21 | 533 | 1000 |
| **T3G30150A5R1MNJ** | 150 | F | 8 | 46 | 1168 | 35 | 889 | 37 | 940 | 31 | 782 | 25 | 635 | 1530 |
| **T3G30225A5R1MNJ** | 225 | F | 8 | 52 | 1321 | 35 | 889 | 37 | 940 | 31 | 782 | 25 | 635 | 1660 |
| **T3G30300A5R1MNJ** | 300 | F | 8 | 60 | 1524 | 48 | 1219 | 43.5 | 1105 | 42 | 1067 | 27 | 686 | 2460 |

① Taps: 480v primary: FCAN 2@2.5%, FCBN 2@2.5%
600v primary: FCAN 2@2.5%, FCBN 2@2.5%
② See wiring diagram WD5
③ See wiring diagram WD5
④ Please refer to enclosure figure on page 7-23 (Fig. 8)

# NRCAN Rated General Purpose Transformers

## K Rated - Industrial Type Copper Winding

*Selection*

Features:

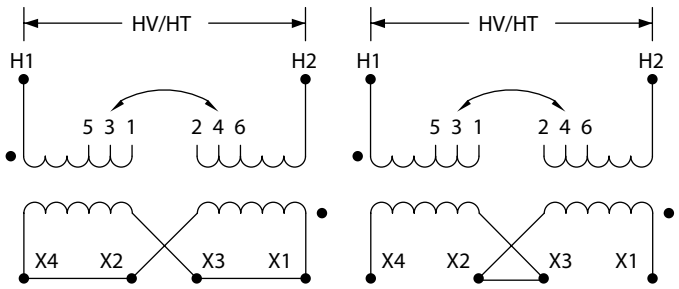
- Large connection compartment for ease of wiring and installation
- Many sizes in stock and available for immediate shipment
- Quiet operation for installation flexibility
- Seismic certification for all units
- Space-saving design for easy handling and installation
- Termination lugs provided with transformer through 75 kVA
- Wall brackets available for units up to 75 kVA
- Vibration isolation pads provide quiet operation
- Staggered front loop taps for easy connection
- CSA certified (163067) and UL listed (E78376)

**150°C Rise - Primary 600V①**

| Catalogue Number | kVA | Mounting | Enclosure Figure④ | Dimensions④ A inch | A mm | B inch | B mm | C inch | C mm | D inch | D mm | E inch | E mm | Weight lbs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Three Phase, 208Y / 120 Secondary, K-4 Rated②** | | | | | | | | | | | | | | |
| T3G30015C5R1KNJ | 15 | W/F | 8 | 22 | 559 | 19 | 483 | 21 | 533 | 15.8 | 401 | 12 | 305 | 235 |
| T3G30030C5R1KNJ | 30 | W/F | 8 | 25 | 635 | 22 | 559 | 22 | 559 | 18.1 | 460 | 13 | 330 | 335 |
| T3G30045C5R1KNJ | 45 | W/F | 8 | 28 | 711 | 25 | 635 | 23.5 | 597 | 19.5 | 495 | 14.5 | 368 | 400 |
| T3G30075C5R1KNJ | 75 | F | 8 | 32 | 813 | 27 | 686 | 26 | 660 | 23.5 | 597 | 16 | 406 | 660 |
| T3G30112C5R1KNJ | 112.5 | F | 8 | 38 | 965 | 29 | 737 | 29 | 737 | 25.5 | 648 | 18 | 457 | 885 |
| T3G30150C5R1KNJ | 150 | F | 8 | 42 | 1067 | 33 | 838 | 32.5 | 826 | 30 | 762 | 21 | 533 | 1140 |
| T3G30225C5R1KNJ | 225 | F | 8 | 52 | 1321 | 35 | 889 | 37 | 940 | 30.8 | 782 | 25 | 635 | 1530 |
| T3G30300C5R1KNJ | 300 | F | 8 | 60 | 1524 | 48 | 1219 | 43.5 | 1105 | 42 | 1067 | 27 | 686 | 1935 |
| **Three Phase, 208Y / 120 Secondary, K-13 Rated③** | | | | | | | | | | | | | | |
| T3G30015C5R1MNJ | 15 | W/F | 8 | 25 | 635 | 22 | 559 | 22 | 559 | 18 | 460 | 13 | 330 | 310 |
| T3G30030C5R1MNJ | 30 | W/F | 8 | 28 | 711 | 25 | 635 | 23.5 | 597 | 20 | 495 | 14.5 | 368 | 400 |
| T3G30045C5R1MNJ | 45 | W/F | 8 | 32 | 813 | 27 | 686 | 26 | 660 | 24 | 597 | 16 | 406 | 585 |
| T3G30075C5R1MNJ | 75 | F | 8 | 38 | 965 | 29 | 737 | 29 | 737 | 26 | 648 | 18 | 457 | 775 |
| T3G30112C5R1MNJ | 112.5 | F | 8 | 42 | 1067 | 33 | 838 | 32.5 | 826 | 30 | 762 | 21 | 533 | 1000 |
| T3G30150C5R1MNJ | 150 | F | 8 | 46 | 1168 | 35 | 889 | 37 | 940 | 31 | 782 | 25 | 635 | 1530 |
| T3G30225C5R1MNJ | 225 | F | 8 | 52 | 1321 | 35 | 889 | 37 | 940 | 31 | 782 | 25 | 635 | 1660 |
| T3G30300C5R1MNJ | 300 | F | 8 | 60 | 1524 | 48 | 1219 | 43.5 | 1105 | 42 | 1067 | 27 | 686 | 2460 |

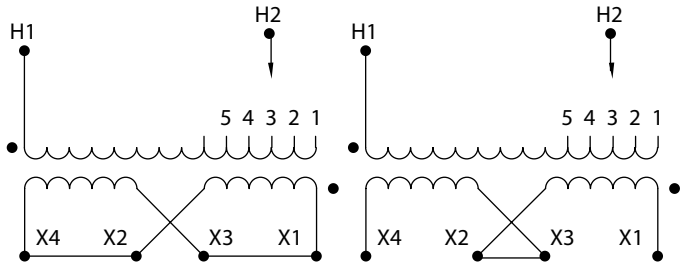
① Taps: 600v primary: FCAN 2@2.5%, FCBN 2@2.5%
② See wiring diagram WD5 (page 7-20)
③ See wiring diagram WD5 (page 7-20)
④ Please refer to enclosure figure on page 7-23 (Fig. 8)

### WD1 wiring diagram



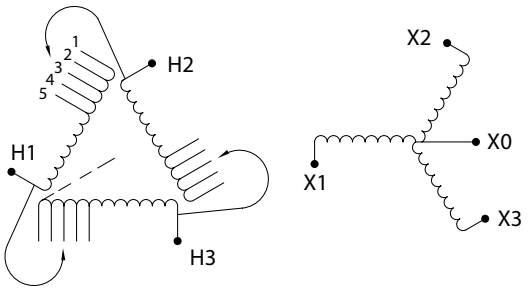

| % Voltage | Primary Volts | Connect lines to | Inter-connect |
|---|---|---|---|
| 105.0% | 504 630 | H1, H2 | 1–2 |
| 102.5% | 492 615 | H1, H2 | 2–3 |
| 100.0% | 480 600 | H1, H2 | 3–4 |
| 97.5% | 468 585 | H1, H2 | 4–5 |
| 95.0% | 456 570 | H1, H2 | 5–6 |
| | **Secondary Volts** | **Connect lines to** | **Inter-connect** |
| | 240 | X1, X4 | X2–X3 |
| | 120 | X1 & X3, X2 & X4 | X2–X4, X1–X3 |
| | 120/240 | X1, X2, X4 | X2–X3 |

### WD2 wiring diagram



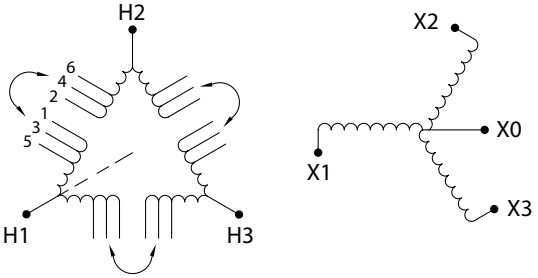

| % Voltage | Primary Volts | Connect lines to | Inter-connect |
|---|---|---|---|
| 105.0% | 504 630 | H1, H2 | 1 |
| 102.5% | 492 615 | H1, H2 | 2 |
| 100.0% | 480 600 | H1, H2 | 3 |
| 97.5% | 468 585 | H1, H2 | 4 |
| 95.0% | 456 570 | H1, H2 | 5 |
| | **Secondary Volts** | **Connect lines to** | **Inter-connect** |
| | 240 | X1, X4 | X2–X3 |
| | 120 | X1 & X3, X2 & X4 | X2–X4, X1–X3 |
| | 120/240 | X1, X2, X4 | X2–X3 |

### WD3 wiring diagram



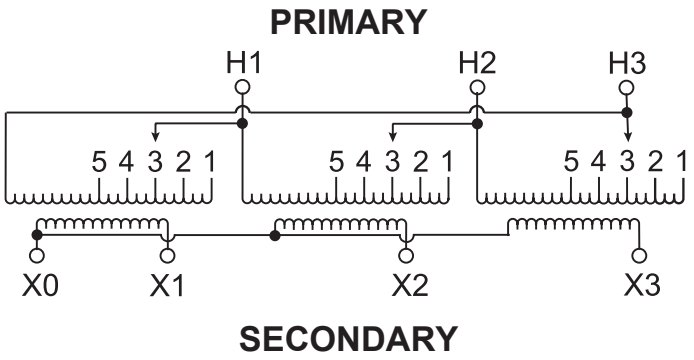

| % Voltage | Primary Volts | Connect lines to | Inter-connect |
|---|---|---|---|
| 105.0% | 504 630 | H1, H2, H3 | 1 |
| 102.5% | 492 615 | H1, H2, H3 | 2 |
| 100.0% | 480 600 | H1, H2, H3 | 3 |
| 97.5% | 468 585 | H1, H2, H3 | 4 |
| 95.0% | 456 570 | H1, H2, H3 | 5 |
| | **Secondary Volts** | **Connect lines to** | |
| | 208 | X1, X2, X3 | |
| | 120 | X1,X0 X2,X0 X3, X0 | |

### WD4 wiring diagram



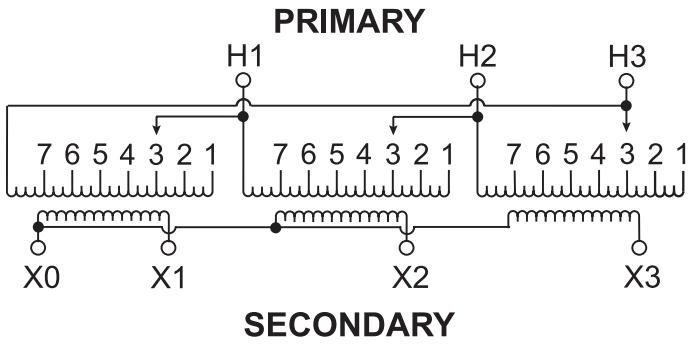

| % Voltage | Primary Volts | Connect lines to | Inter-connect |
|---|---|---|---|
| 105.0% | 630 | H1, H2, H3 | 1–2 |
| 102.5% | 615 | H1, H2, H3 | 2–3 |
| 100.0% | 600 | H1, H2, H3 | 3–4 |
| 97.5% | 585 | H1, H2, H3 | 4–5 |
| 95.0% | 570 | H1, H2, H3 | 5–6 |
| | **Secondary Volts** | **Connect lines to** | |
| | 208 | X1, X2, X3 | |
| | 120 | X1,X0 X2,X0 X3, X0 | |

WD5 wiring diagram

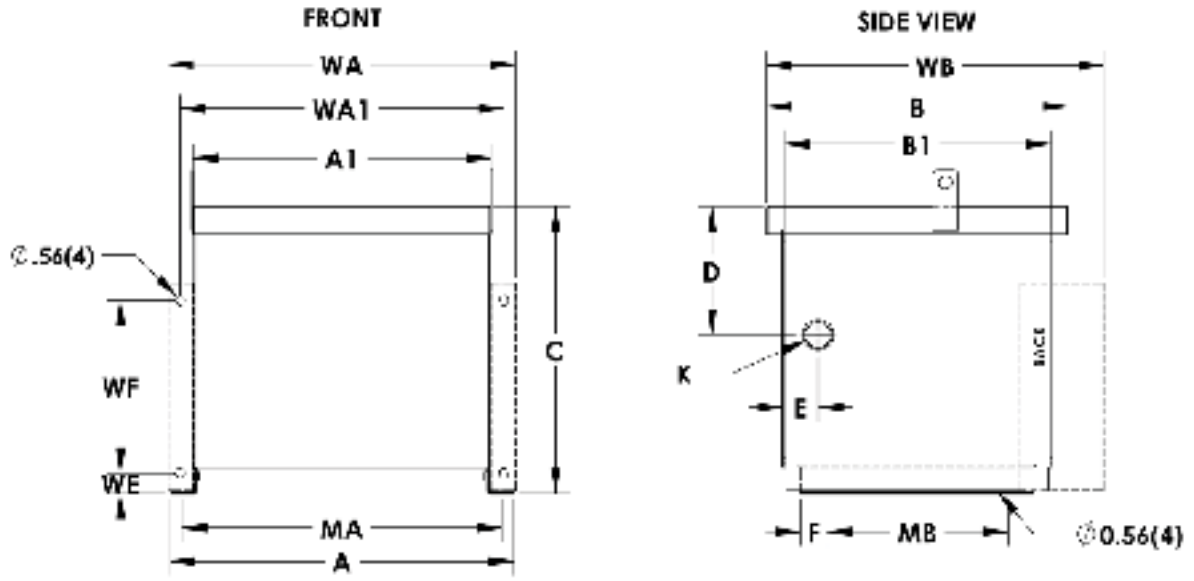



| Primary Volts | Connect lines to |
|---|---|
| 630 | H1,H2,H3 |
| 615 | H1,H2,H4 |
| 600 | H1,H2,H5 |
| 585 | H1,H2,H6 |
| 570 | H1,H2,H7 |
| **Secondary Volts** | **Connect lines to** |
| 208 | X1,X2,X3 |
| 120 | X0 - X1 or X2 or X3 |

WD6 wiring diagram

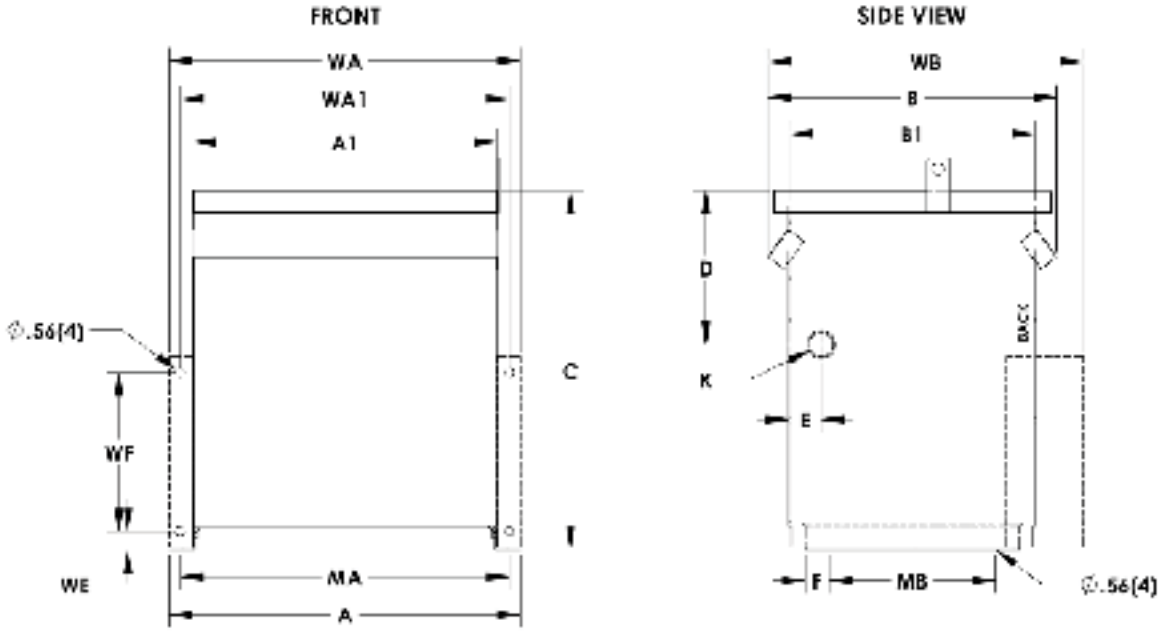



| Primary Volts | Connect lines to |
|---|---|
| 504 | H1,H2,H3 |
| 492 | H1,H2,H4 |
| 480 | H1,H2,H5 |
| 468 | H1,H2,H6 |
| 456 | H1,H2,H7 |
| 444 | H1,H2,H8 |
| 432 | H1,H2,H9 |
| **Secondary Volts** | **Connect lines to** |
| 208 | X1,X2,X3 |
| 120 | X0 - X1 or X2 or X3 |



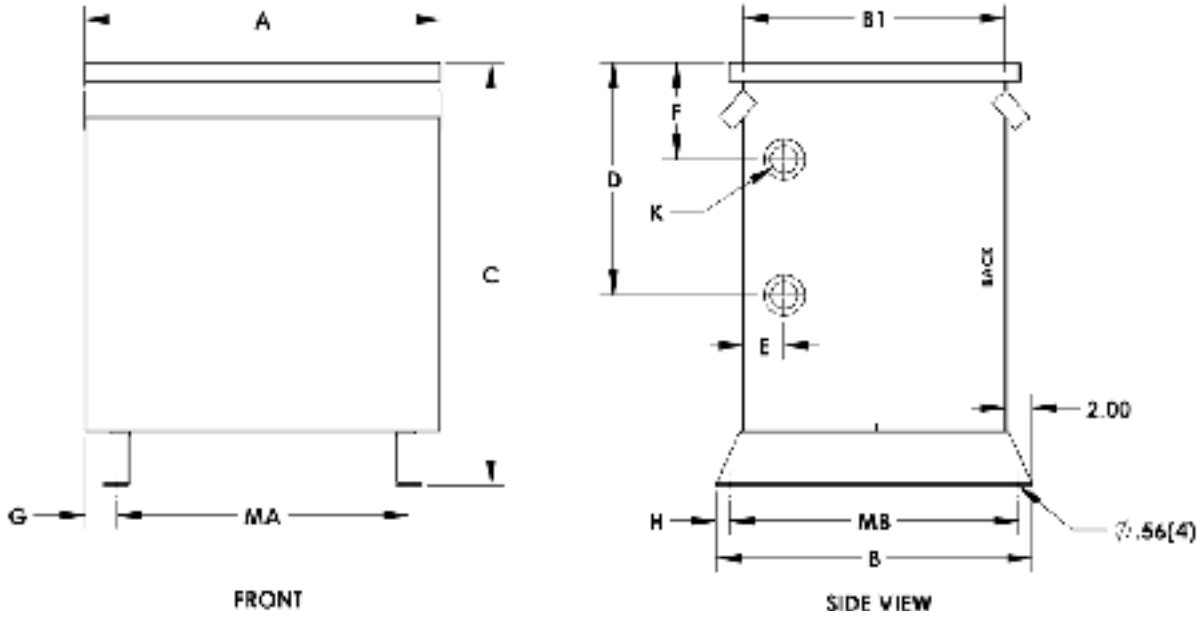

| Enclosure | Dimensions in Inches | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A1 | B | B1 | C | D | E | F | K | MA | MB | WA* | WA1* | WB* | WE* | WF* |
| FIG1 | 19.9 | 17.3 | 17.5 | 15.5 | 17.6 | 7.4 | 2.0 | 1.5 | 1.75 K.O. | 18.5 | 10.5 | 20.1 | 18.7 | 19.5 | 2.2 | 10.0 |

* Dimensions of enclosure when wall-mounting bracket installed (optional accessory component).



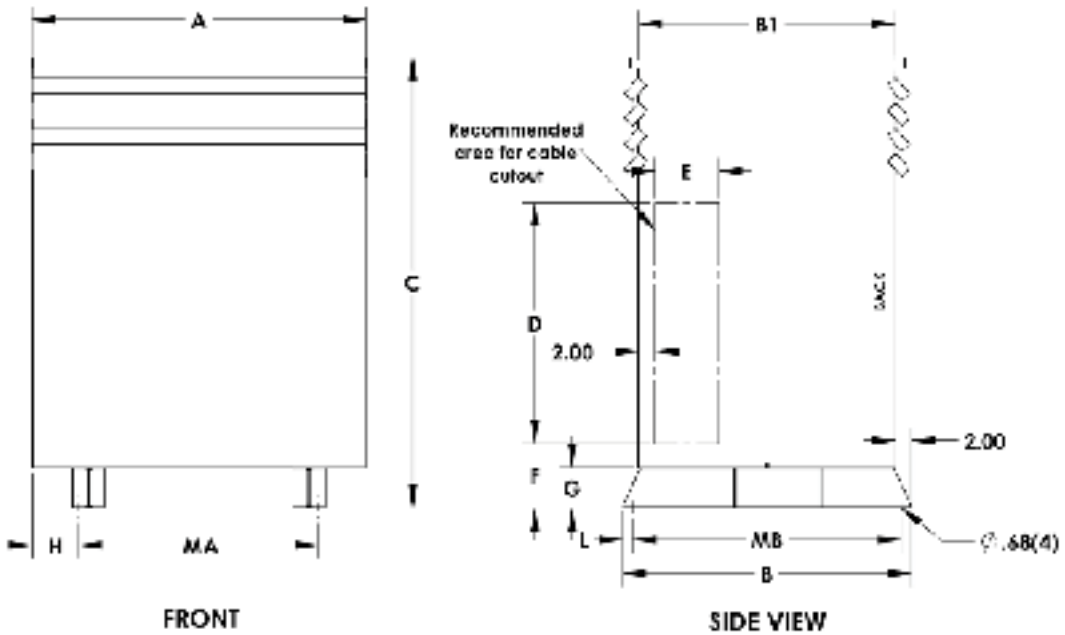

| Enclosure | Dimensions in Inches | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A1 | B | B1 | C | D | E | F | K | MA | MB | WA* | WA1* | WB* | WE* | WF* |
| FIG2 | 22.1 | 19.2 | 18.2 | 15.5 | 23.6 | 9.7 | 2.0 | 1.5 | 1.75 K.O. | 20.8 | 10.5 | 22.1 | 20.8 | 19.9 | 2.2 | 10.0 |
| FIG3 | 24.9 | 22.0 | 19.4 | 16.5 | 25.6 | 12.0 | 2.0 | 2.0 | 1.75 K.O. | 23.5 | 10.5 | 24.9 | 23.5 | 21.0 | 2.2 | 10.0 |

* Dimensions of enclosure when wall-mounting bracket installed (optional accessory component).



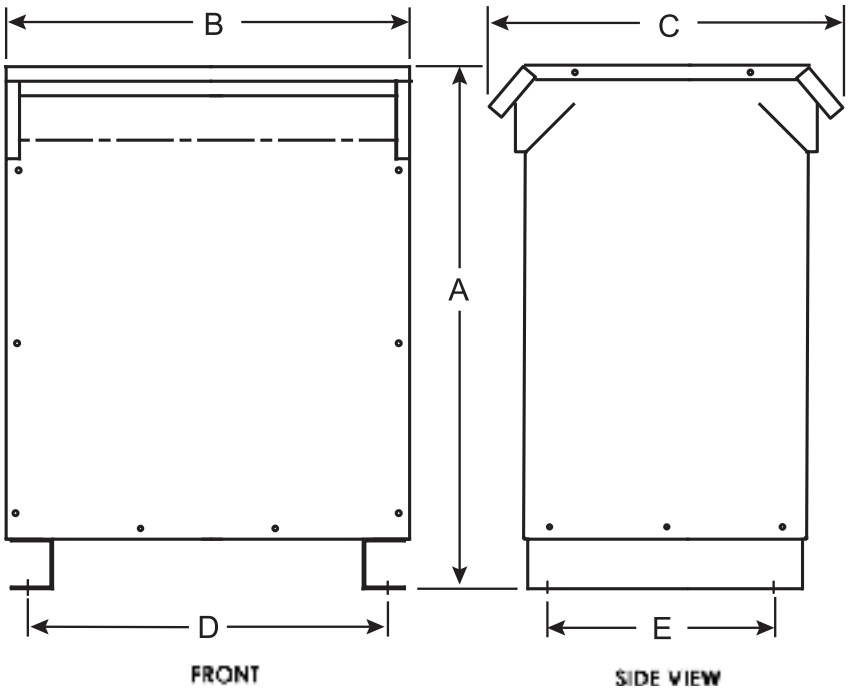

| Enclosure | Dimensions in Inches | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | B1 | C | D | E | F | G | H | K | MA | MB |
| Fig 4 | 26.3 | 23.3 | 19.3 | 31.1 | 17.1 | 3.0 | 7.1 | 2.3 | 1.0 | 2.0 x 3.0 K.O. | 21.5 | 21.3 |
| Fig 5 | 29.0 | 26.5 | 22.5 | 39.1 | 24.1 | 3.0 | 14.1 | 2.7 | 1.0 | 2.0 x 3.0 K.O. | 23.5 | 24.5 |
| Fig 6 | 37.8 | 30.0 | 26.0 | 48.4 | 33.4 | 3.0 | 23.4 | 6.8 | 1.0 | 2.0 x 3.0 K.O. | 24.0 | 28.0 |

* Dimensions of enclosure when wall-mounting bracket installed (optional accessory component).




| Enclosure | Dimensions in Inches | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | B1 | C | D | E | F | G | H | L | MA | MB |
| Fig 7 | 41.8 | 36.0 | 32.0 | 56.1 | 30.0 | 8.0 | 8.0 | 5.0 | 5.9 | 0.8 | 30.0 | 34.5 |

* Dimensions of enclosure when wall-mounting bracket installed (optional accessory component).




| Enclosure | |
|---|---|
| Fig 8 | Enclosure figure 8 applies to all item numbers ending with NJ |