



# ENCAPSULATED TRANSFORMERS FOR COMMERCIAL APPLICATIONS



# Encapsulated Transformers for Commercial Applications



## Approvals

- UL Listed, file No. E50394
- CSA Certified file No. LR3902



For commercial applications where airborne contaminants are present, HPS general-purpose encapsulated transformers offer a cost-effective solution that prioritizes safety, quality and ease of installation and maintenance.

The core and coil are completely encapsulated in epoxy and silica. This provides excellent protection against airborne particles and moisture build-up inside the transformer enclosure, significantly reducing the risk of operational interruptions.

## Standard Design

- **Aluminum windings** (on units above 3kVA) - Provide a cost effective solution without compromising on quality and performance.
- **Standard electrostatic shield** (units 750VA and above) - Provides an additional layer of protection against electromagnetic interference, ensuring stable performance.
- **Higher impedance designs** (3 Phase) - Minimizes short circuit currents allowing for the use of more cost-effective protective devices, reducing your overall project expenses.
- **Standard 10kV BIL** (3 Phase) - Provides increased reliability and protection against critical equipment failure (including voltage spikes and other line transients).
- **Improved efficiency level** - Reduces energy costs.

## Applications



Shopping Centers



Schools



Sports Complexes



Office Buildings



Lighting



Wastewater

For industrial applications requiring “Class 1, Division 2, Groups A, B, C and D Hazardous Locations” please refer to the HPS Titan N Series.



## Features & Benefits

### Single Phase

**Wall Mounting** - Installation made quick and easy with keyhole mounting slots and supplied wall mounting template.

**Type 3R Enclosure** - Suitable for indoor and outdoor applications.

**Rear and Side Entry Conduit Knockouts** - Provide easy access into a roomy wiring compartment.

**Easily Accessible Nameplate** - Provides wiring diagram for ease of installation.

**Encapsulated in Epoxy & Silica** - Protects transformer components from moisture and airborne contaminants, for prolonged operational life.



\*Picture displayed above is of a standard single phase unit.

### Three Phase

**Removable Hinged Door** - Allows for convenient access to terminations for easier installation and maintenance.

**Textured Paint** - Provides excellent durability.

**Adjustable Screw Clips With Gasket Stop.**

**Standard Type 4 Enclosure** - Highly suitable for indoor and outdoor applications (optional 4X available).

**Lifting Hooks** - Pre-installed for improved handling and transportation.

**Voltage Taps** - Easily accessible for installation via hinged door.

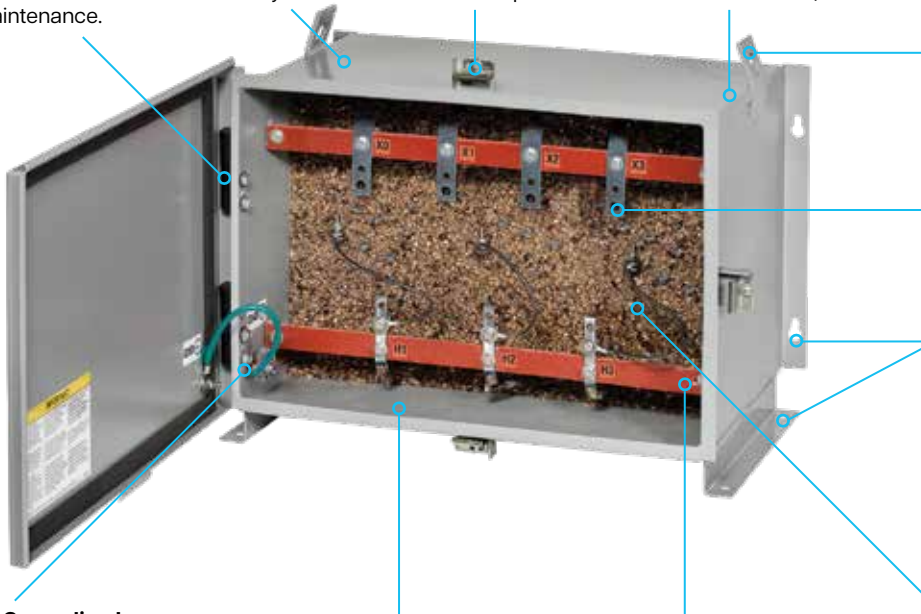
**Wall & Floor Mounting** (on select kVA's) - Pre-installed reducing the time and effort required for installation, contributing to overall cost savings.

**Factory Installed Grounding Lugs** - Installed to save you time and money with easy access to the ground.

**Optional Breather Drains** - Ensures any moisture build-up due to condensation is easily eliminated without compromising the integrity of the Type 4 enclosure.

**Separate High & Low Voltage Terminal Boards** (15 kVA and up only) - Allowing for safe and easy connections.

**Encapsulated in Epoxy & Silica** - Protects transformer components from moisture and airborne contaminants, for prolonged operational life.



\*Picture displayed above is of a standard three phase unit.

# Encapsulated Transformers for Commercial Applications

## Specifications & Accessories

### Standard Specifications



| Features                      | Single Phase                                                                                                    | Three Phase                                                                             |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>kVA:</b>                   | 50VA to 37.5kVA                                                                                                 | 6kVA to 75kVA                                                                           |
| <b>UL Listed:</b>             | E50394                                                                                                          |                                                                                         |
| <b>Frequency:</b>             | 60Hz<br>(50/60Hz options available for specific voltages groups)                                                | 60Hz or 50/60Hz                                                                         |
| <b>Shield:</b>                | Standard on 750VA and up                                                                                        | Standard on all units                                                                   |
| <b>Insulation System:</b>     | 130°C (95°C rise) up to 1 kVA<br>180°C (135°C rise) 1.5 to 37.5kVA<br>Optional 180°C (95°C rise) 1.5 to 37.5kVA | 135°C rise (220°C class)                                                                |
| <b>Enclosure Type:</b>        | Heavy duty enclosed Type 3R standard<br>(Optional Type 4, 12)                                                   | Heavy duty enclosed Type 4 standard<br>(Optional Type 4X)                               |
| <b>Enclosure Finish:</b>      | ANSI 61 Grey                                                                                                    | ANSI 61 Grey, UL50E textured powered coating<br>or stainless steels.                    |
| <b>Optional Accessories:</b>  | N/A                                                                                                             | Glass filled Nylon condensate valve<br>Part number: PLG19000<br>(Optional SS available) |
| <b>Standard Primary Taps:</b> | Refer to wiring diagrams for details.                                                                           |                                                                                         |
| <b>Termination:</b>           | Front accessible separated high and low voltage lead wires or mounting pads.                                    |                                                                                         |
| <b>Conduit Entry:</b>         | Rear and side entry.                                                                                            | Side or bottom enclosure entry<br>(exceptions apply on bottom entry).                   |
| <b>Impedance:</b>             | Typically 1% to 7%                                                                                              | Typically 2% to 5%                                                                      |
| <b>Sound Level:</b>           | Meets NEMA ST-20 standards                                                                                      |                                                                                         |
| <b>Warranty:</b>              | 10 year limited*                                                                                                |                                                                                         |

\*Please refer to the HPS website for full details.



## Single Phase Part Number Guide

### Example

| Family | kVA   | Pri. Volt. | Sec. Volt. | Electrostatic Shield |
|--------|-------|------------|------------|----------------------|
| C 1 F  | 0 0 5 | L          | E          | S                    |

| Family                                                      | kVA Rating                                                                                                                                                                                                                                                                  | Primary Voltage                                                                                                                                                                                                                                                   | Shield:                                                                                                                                                                  |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C1F - Encapsulated Transformers for Commercial Applications | 0.05kVA - C05<br>0.10kVA - C10<br>0.15kVA - C15<br>0.25kVA - C25<br>0.35kVA - C35<br>0.50kVA - C50<br>0.75kVA - C75<br>1.0kVA - 1C0<br>1.5kVA - 1C5<br>2kVA - 002<br>3kVA - 003<br>5kVA - 005<br>7.5kVA - 007<br>10kVA - 010<br>15kVA - 015<br>25kVA - 025<br>37.5kVA - 037 | <b>1PH:</b><br>E - 120 x 240<br>W - 120/208/240/277<br>G - 208 x 416<br>L - 240 x 480<br>C - 277 <sup>1</sup><br>H - 277/480 <sup>1</sup><br>J - 347/380 <sup>1</sup><br>P - 600<br><br><b>Secondary Voltage</b><br><br><b>1PH:</b><br>E - 120/240<br>R - 208/277 | S - Shielded<br><br><i>Note: Shielded windings are only available and are standard on single phase units over 750VA and must have the letter "S" in the part number.</i> |



\*Default options - ignore if all following characters are default values

- 95°C rise is standard on units up to and including 1kVA.
- 135°C rise is standard on units 1.5kVA and above.
- 95°C rise is optional on units 1.5kVA and above.

## Three Phase Part Number Guide

### Example

| Family |   | Generation | Phase | kVA |   |   |   | Pri. Volt. | Sec. Volt. | Winding Material/<br>Electrostatic Shield | Temp. Rise &<br>Insul. Class | Frequency | Enclosure |
|--------|---|------------|-------|-----|---|---|---|------------|------------|-------------------------------------------|------------------------------|-----------|-----------|
| F      | C | 2          | A     | 0   | 0 | 4 | 5 | K          | B          | S                                         | P                            | 6         | F         |

| Family                                                     | kVA Ratings                                                                                | Primary Voltage                                                                                                                                                             | Winding Material                                                       |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| FC - Encapsulated Transformers for Commercial Applications | 6kVA - 0006<br>9kVA - 0009<br>15kVA - 0015<br>30kVA - 0030<br>45kVA - 0045<br>75kVA - 0075 | <b>3PH</b><br>B - 208<br>D - 240<br>G - 380 <sup>3</sup><br>M - 440<br>K - 480<br>P - 600                                                                                   | S - AL + Shield                                                        |
| Generation                                                 |                                                                                            |                                                                                                                                                                             | <b>Temperature Rise</b>                                                |
| 2 - Current designs                                        |                                                                                            |                                                                                                                                                                             | P - 135°C Rise (220°C Class)                                           |
| Phase (Pri-Sec)                                            |                                                                                            |                                                                                                                                                                             | <b>Frequency</b>                                                       |
| A - 3PH Delta-Wye-N*                                       |                                                                                            |                                                                                                                                                                             | 5 - 50/60Hz<br>6 - 60Hz*                                               |
| C - 3PH Delta-Delta/CT <sup>1</sup>                        |                                                                                            |                                                                                                                                                                             | <b>Enclosure</b>                                                       |
| D - 3PH Delta-Delta                                        |                                                                                            | <b>Secondary Voltage</b><br><b>3PH</b><br>B - 208Y/120<br>C - 230Y/133<br>D - 240D, 240Y/139, or 240D/120CT<br>G - 380Y/220<br>K - 480Y/277<br>P - 600Y/347<br>V - 220Y/127 | F - Type 4* <sup>2</sup><br>G - Type 4X (304SS)<br>H - Type 4X (316SS) |



\*Default Options

<sup>1</sup>Available standard only with 240D/120CT secondaries.

<sup>2</sup>Type 4 enclosure is also Type 12.

<sup>3</sup>Units with primary voltage code "G" come standard as 50/60Hz.

# SELECTION TABLES

## Aluminum Single Phase, Type 3R Enclosure



120X240 PRIMARY VOLTAGE

120/240 SECONDARY VOLTAGE

60 HZ

| kVA  | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |               |                | Approx. Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring Diagram |
|------|----------------|------------|--------------------------------------|---------------|----------------|----------------------------|---------------------------------|----------------|
|      |                |            | A                                    | B             | C              |                            |                                 |                |
| 0.05 | C1FC05EE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 7.0 [3.2]                  | W                               | SCD 1F         |
| 0.10 | C1FC10EE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 7.0 [3.2]                  | W                               | SCD 1F         |
| 0.15 | C1FC15EE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 8.0 [3.6]                  | W                               | SCD 1F         |
| 0.25 | C1FC25EE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 9.0 [4.1]                  | W                               | SCD 1F         |
| 0.35 | C1FC35EE*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23] | 7.19 [182.63]  | 15.0 [6.8]                 | W                               | SCD 1F         |
| 0.50 | C1FC50EE*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23] | 7.19 [182.63]  | 16.0 [7.2]                 | W                               | SCD 1F         |
| 0.75 | C1FC75EE*      | NQ2        | 5.06 [128.53]                        | 4.56 [115.83] | 9.30 [236.22]  | 23.0 [10.4]                | W                               | SCD 1F         |
| 1    | C1FC00EES*     | NQ3        | 5.88 [149.36]                        | 5.19 [131.83] | 10.56 [268.23] | 24.0 [10.8]                | W                               | SCD 1F         |
| 1.5  | C1FC5EES*      | NQ3        | 5.88 [149.36]                        | 5.19 [131.83] | 10.56 [268.23] | 33.0 [14.9]                | W                               | SCD 1F         |
| 2    | C1F002EES*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75] | 11.75 [298.45] | 42.0 [18.9]                | W                               | SCD 1F         |
| 3    | C1F003EES*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75] | 11.75 [298.45] | 55.0 [24.8]                | W                               | SCD 1F         |
| 5    | C1F005EES*     | NQ5        | 10.00 [254.00]                       | 7.75 [196.85] | 17.25 [438.15] | 96.0 [43.2]                | W                               | SCD 1F         |
| 7.5  | C1F007EES      | NQ6A       | 12.25 [311.15]                       | 9.25 [234.95] | 17.63 [447.81] | 148 [67]                   | W                               | SCD 2F         |
| 10   | C1F010EES      | NQ6        | 12.25 [311.15]                       | 9.25 [234.95] | 20.88 [530.36] | 178 [80]                   | W                               | SCD 2F         |

\* Copper wound unit

208X416 PRIMARY VOLTAGE

120/240 SECONDARY VOLTAGE

60 HZ

| kVA  | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |               |                | Approx. Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring Diagram |
|------|----------------|------------|--------------------------------------|---------------|----------------|----------------------------|---------------------------------|----------------|
|      |                |            | A                                    | B             | C              |                            |                                 |                |
| 0.05 | C1FC05GE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 7.0 [3.2]                  | W                               | SCD 1F         |
| 0.10 | C1FC10GE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 7.0 [3.2]                  | W                               | SCD 1F         |
| 0.15 | C1FC15GE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 8.0 [3.6]                  | W                               | SCD 1F         |
| 0.25 | C1FC25GE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 9.0 [4.1]                  | W                               | SCD 1F         |
| 0.35 | C1FC35GE*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23] | 7.19 [182.63]  | 15.0 [6.8]                 | W                               | SCD 1F         |
| 0.50 | C1FC50GE*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23] | 7.19 [182.63]  | 16.0 [7.2]                 | W                               | SCD 1F         |
| 0.75 | C1FC75GES*     | NQ2        | 5.06 [128.53]                        | 4.56 [115.83] | 9.30 [236.22]  | 23.0 [10.4]                | W                               | SCD 1F         |
| 1    | C1FC00GES*     | NQ3        | 5.88 [149.36]                        | 5.19 [131.83] | 10.56 [268.23] | 24.0 [10.8]                | W                               | SCD 1F         |
| 1.5  | C1FC5GES*      | NQ3        | 5.88 [149.36]                        | 5.19 [131.83] | 10.56 [268.23] | 33.0 [14.9]                | W                               | SCD 1F         |
| 2    | C1F002GES*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75] | 11.75 [298.45] | 42.0 [18.9]                | W                               | SCD 1F         |
| 3    | C1F003GES*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75] | 11.75 [298.45] | 55.0 [24.8]                | W                               | SCD 1F         |
| 5    | C1F005GES      | NQ5        | 10.00 [254.00]                       | 7.75 [196.85] | 17.25 [438.15] | 96.0 [43.2]                | W                               | SCD 1F         |
| 7.5  | C1F007GES      | NQ6A       | 12.25 [311.15]                       | 9.25 [234.95] | 17.63 [447.81] | 148 [67]                   | W                               | SCD 2F         |
| 10   | C1F010GES      | NQ6        | 12.25 [311.15]                       | 9.25 [234.95] | 20.88 [530.36] | 178 [80]                   | W                               | SCD 2F         |

\* Copper wound unit

120/208/240/277 PRIMARY VOLTAGE

120/240 SECONDARY VOLTAGE

60 HZ

| kVA  | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |               |                | Approx. Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring Diagram |
|------|----------------|------------|--------------------------------------|---------------|----------------|----------------------------|---------------------------------|----------------|
|      |                |            | A                                    | B             | C              |                            |                                 |                |
| 0.05 | C1FC05WE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 7.0 [3.2]                  | W                               | SCD 41F        |
| 0.10 | C1FC10WE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 7.0 [3.2]                  | W                               | SCD 41F        |
| 0.15 | C1FC15WE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 8.0 [3.6]                  | W                               | SCD 41F        |
| 0.25 | C1FC25WE*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23] | 7.19 [182.63]  | 10.0 [4.5]                 | W                               | SCD 41F        |
| 0.35 | C1FC35WE*      | NQ2        | 5.06 [128.53]                        | 4.56 [115.83] | 9.30 [236.22]  | 17.0 [7.7]                 | W                               | SCD 41F        |
| 0.50 | C1FC50WE*      | NQ2        | 5.06 [128.53]                        | 4.56 [115.83] | 9.30 [236.22]  | 25.0 [11.3]                | W                               | SCD 41F        |
| 0.75 | C1FC75WES*     | NQ2        | 5.06 [128.53]                        | 4.56 [115.83] | 9.30 [236.22]  | 23.0 [10.4]                | W                               | SCD 41F        |
| 1    | C1FC00WES*     | NQ3        | 5.88 [149.36]                        | 5.19 [131.83] | 10.56 [268.23] | 24.0 [10.8]                | W                               | SCD 41F        |
| 1.5  | C1FC5WES*      | NQ3        | 5.88 [149.36]                        | 5.19 [131.83] | 10.56 [268.23] | 37.0 [16.7]                | W                               | SCD 41F        |
| 2    | C1F002WES*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75] | 11.75 [298.45] | 52.0 [23.4]                | W                               | SCD 41F        |
| 3    | C1F003WES*     | NQ5        | 10.00 [254.00]                       | 7.75 [196.85] | 17.25 [438.15] | 65.0 [29.3]                | W                               | SCD 2F         |
| 5    | C1F005WES      | NQ5        | 10.00 [254.00]                       | 7.75 [196.85] | 17.25 [438.15] | 108 [49]                   | W                               | SCD 2F         |
| 7.5  | C1F007WES      | NQ6        | 12.25 [311.15]                       | 9.25 [234.95] | 20.88 [530.36] | 171 [77]                   | W                               | SCD 2F         |
| 10   | C1F010WES      | NQ6        | 12.25 [311.15]                       | 9.25 [234.95] | 20.88 [530.36] | 183 [82]                   | W                               | SCD 2F         |

\* Copper wound unit

# SELECTION TABLES

## Aluminum Wound Single Phase, Type 3R Enclosure



240X480 PRIMARY VOLTAGE

120/240 SECONDARY VOLTAGE

60 HZ

| kVA  | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |                |                | Approx.<br>Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring<br>Diagram |
|------|----------------|------------|--------------------------------------|----------------|----------------|-------------------------------|---------------------------------|-------------------|
|      |                |            | A                                    | B              | C              |                               |                                 |                   |
| 0.05 | C1FC05LE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53]  | 7.19 [182.63]  | 7.0 [3.2]                     | W                               | SCD 1F            |
| 0.10 | C1FC10LE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53]  | 7.19 [182.63]  | 7.0 [3.2]                     | W                               | SCD 1F            |
| 0.15 | C1FC15LE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53]  | 7.19 [182.63]  | 8.0 [3.6]                     | W                               | SCD 1F            |
| 0.25 | C1FC25LE*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23]  | 7.19 [182.63]  | 9.0 [4.1]                     | W                               | SCD 1F            |
| 0.35 | C1FC35LE*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23]  | 7.19 [182.63]  | 15.0 [6.8]                    | W                               | SCD 1F            |
| 0.50 | C1FC50LE*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23]  | 7.19 [182.63]  | 16.0 [7.2]                    | W                               | SCD 1F            |
| 0.75 | C1FC75LE*      | NQ2        | 5.06 [128.53]                        | 4.56 [115.83]  | 9.30 [236.22]  | 23.0 [10.4]                   | W                               | SCD 1F            |
| 1    | C1FC05LES*     | NQ3        | 5.88 [149.36]                        | 5.19 [131.83]  | 10.56 [268.23] | 24.0 [10.8]                   | W                               | SCD 1F            |
| 1.5  | C1FC15LES*     | NQ3        | 5.88 [149.36]                        | 5.19 [131.83]  | 10.56 [268.23] | 33.0 [14.9]                   | W                               | SCD 1F            |
| 2    | C1F002LES*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75]  | 11.75 [298.45] | 42.0 [18.9]                   | W                               | SCD 1F            |
| 3    | C1F003LES*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75]  | 11.75 [298.45] | 55.0 [24.8]                   | W                               | SCD 1F            |
| 5    | C1F005LES      | NQ5        | 10.00 [254.00]                       | 7.75 [196.85]  | 17.25 [438.15] | 115 [52]                      | W                               | SCD 1F            |
| 7.5  | C1F007LES      | NQ6A       | 12.25 [311.15]                       | 9.25 [234.95]  | 17.63 [447.81] | 148 [67]                      | W                               | SCD 2F            |
| 10   | C1F010LES      | NQ6        | 12.25 [311.15]                       | 9.25 [234.95]  | 20.88 [530.36] | 179 [81]                      | W                               | SCD 2F            |
| 15   | C1F015LES      | NQ7        | 14.50 [368.30]                       | 10.75 [273.05] | 21.38 [543.06] | 265 [119]                     | W                               | SCD 2F            |
| 25   | C1F025LES      | NQ8        | 14.50 [368.30]                       | 10.75 [273.05] | 27.38 [695.46] | 385 [173]                     | W                               | SCD 2F            |
| 37.5 | C1F037LES      | NQS10      | 21.88 [555.76]                       | 18.50 [469.90] | 31.00 [787.40] | 598 [269]                     | F or W*                         | SCD 2F            |

\* Copper wound unit

277 PRIMARY VOLTAGE

120/240 SECONDARY VOLTAGE

50/60 HZ

| kVA  | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |               |                | Approx.<br>Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring<br>Diagram |
|------|----------------|------------|--------------------------------------|---------------|----------------|-------------------------------|---------------------------------|-------------------|
|      |                |            | A                                    | B             | C              |                               |                                 |                   |
| 0.05 | C1FC05CE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 7.0 [3.2]                     | W                               | SCD 4F            |
| 0.10 | C1FC10CE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 7.0 [3.2]                     | W                               | SCD 4F            |
| 0.15 | C1FC15CE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 8.0 [3.6]                     | W                               | SCD 4F            |
| 0.25 | C1FC25CE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 9.0 [4.1]                     | W                               | SCD 4F            |
| 0.35 | C1FC35CE*      | NQ2        | 5.06 [128.53]                        | 4.56 [115.83] | 9.30 [236.22]  | 15.0 [6.8]                    | W                               | SCD 4F            |
| 0.50 | C1FC50CE*      | NQ2        | 5.06 [128.53]                        | 4.56 [115.83] | 9.30 [236.22]  | 15.0 [6.8]                    | W                               | SCD 4F            |
| 0.75 | C1FC75CES*     | NQ2        | 5.06 [128.53]                        | 4.56 [115.83] | 9.30 [236.22]  | 23.0 [10.4]                   | W                               | SCD 4F            |
| 1    | C1F1C0CES*     | NQ3        | 5.88 [149.36]                        | 5.19 [131.83] | 10.56 [268.23] | 24.0 [10.8]                   | W                               | SCD 4F            |
| 1.5  | C1F1C5CES*     | NQ3        | 5.88 [149.36]                        | 5.19 [131.83] | 10.56 [268.23] | 33.0 [14.9]                   | W                               | SCD 4F            |
| 2    | C1F002CES*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75] | 11.75 [298.45] | 42.0 [18.9]                   | W                               | SCD 4F            |
| 3    | C1F003CES*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75] | 11.75 [298.45] | 55.0 [24.8]                   | W                               | SCD 4F            |
| 5    | C1F005CES      | NQ5        | 10.00 [254.00]                       | 7.75 [196.85] | 17.25 [438.15] | 115 [52]                      | W                               | SCD 4F            |
| 7.5  | C1F007CES      | NQ6A       | 12.25 [311.15]                       | 9.25 [234.95] | 17.63 [447.81] | 148 [67]                      | W                               | SCD 2F            |
| 10   | C1F010CES      | NQ6        | 12.25 [311.15]                       | 9.25 [234.95] | 20.88 [530.36] | 178 [80]                      | W                               | SCD 2F            |

\* Copper wound unit

277/480 PRIMARY VOLTAGE

208/277 SECONDARY VOLTAGE

50/60 HZ

| kVA  | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |               |                | Approx.<br>Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring<br>Diagram |
|------|----------------|------------|--------------------------------------|---------------|----------------|-------------------------------|---------------------------------|-------------------|
|      |                |            | A                                    | B             | C              |                               |                                 |                   |
| 0.05 | C1FC05HR*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 7.0 [3.2]                     | W                               | SCD 42F           |
| 0.10 | C1FC10HR*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 8.0 [3.6]                     | W                               | SCD 42F           |
| 0.15 | C1FC15HR*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 11.0 [5.0]                    | W                               | SCD 42F           |
| 0.25 | C1FC25HR*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23] | 7.19 [182.63]  | 12.0 [5.4]                    | W                               | SCD 42F           |
| 0.35 | C1FC35HR*      | NQ2        | 5.06 [128.53]                        | 4.56 [115.83] | 9.30 [236.22]  | 15.0 [6.8]                    | W                               | SCD 42F           |
| 0.50 | C1FC50HR*      | NQ2        | 5.06 [128.53]                        | 4.56 [115.83] | 9.30 [236.22]  | 18.0 [8.1]                    | W                               | SCD 42F           |
| 0.75 | C1FC75HRS*     | NQ3        | 5.88 [149.36]                        | 5.19 [131.83] | 10.56 [268.23] | 25.0 [11.3]                   | W                               | SCD 42F           |
| 1    | C1F1C0HRS*     | NQ3        | 5.88 [149.36]                        | 5.19 [131.83] | 10.56 [268.23] | 31.0 [14.0]                   | W                               | SCD 42F           |
| 1.5  | C1F1C5HRS*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75] | 11.75 [298.45] | 39.0 [17.6]                   | W                               | SCD 42F           |
| 2    | C1F002HRS*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75] | 11.75 [298.45] | 54.0 [24.3]                   | W                               | SCD 42F           |
| 3    | C1F003HRS*     | NQ5        | 10.00 [254.00]                       | 7.75 [196.85] | 17.25 [438.15] | 80.0 [36.0]                   | W                               | SCD 43F           |
| 5    | C1F005HRS      | NQ5        | 10.00 [254.00]                       | 7.75 [196.85] | 17.25 [438.15] | 156 [70]                      | W                               | SCD 43F           |
| 7.5  | C1F007HRS      | NQ6        | 12.25 [311.15]                       | 9.25 [234.95] | 20.88 [530.36] | 188 [85]                      | W                               | SCD 43F           |
| 10   | C1F010HRS      | NQ6        | 12.25 [311.15]                       | 9.25 [234.95] | 20.88 [530.36] | 179 [81]                      | W                               | SCD 43F           |

\* Copper wound unit

# SELECTION TABLES

## Aluminum Wound Single Phase, Type 3R Enclosure



347/380 PRIMARY VOLTAGE **CE** 120/240 SECONDARY VOLTAGE 50/60 HZ

| kVA  | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |               |                | Approx.<br>Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring<br>Diagram |
|------|----------------|------------|--------------------------------------|---------------|----------------|-------------------------------|---------------------------------|-------------------|
|      |                |            | A                                    | B             | C              |                               |                                 |                   |
| 0.05 | C1FC05JE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 7.0 [3.2]                     | W                               | SCD 33F           |
| 0.10 | C1FC10JE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 7.0 [3.2]                     | W                               | SCD 33F           |
| 0.15 | C1FC15JE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 8.0 [3.6]                     | W                               | SCD 33F           |
| 0.25 | C1FC25JE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 9.0 [4.1]                     | W                               | SCD 33F           |
| 0.35 | C1FC35JE*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23] | 7.19 [182.63]  | 14.0 [6.3]                    | W                               | SCD 33F           |
| 0.50 | C1FC50JE*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23] | 7.19 [182.63]  | 14.0 [6.3]                    | W                               | SCD 33F           |
| 0.75 | C1FC75JES*     | NQ2        | 5.06 [128.53]                        | 4.56 [115.83] | 9.30 [236.22]  | 23.0 [10.4]                   | W                               | SCD 33F           |
| 1    | C1F1C0JES*     | NQ3        | 5.88 [149.36]                        | 5.19 [131.83] | 10.56 [268.23] | 32.0 [14.4]                   | W                               | SCD 33F           |
| 1.5  | C1F1C5JES*     | NQ3        | 5.88 [149.36]                        | 5.19 [131.83] | 10.56 [268.23] | 35.0 [15.8]                   | W                               | SCD 33F           |
| 2    | C1F002JES*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75] | 11.75 [298.45] | 51.0 [23.0]                   | W                               | SCD 33F           |
| 3    | C1F003JES*     | NQ5        | 10.00 [254.00]                       | 7.75 [196.85] | 17.25 [438.15] | 98.0 [44.1]                   | W                               | SCD 44F           |
| 5    | C1F005JES      | NQ5        | 10.00 [254.00]                       | 7.75 [196.85] | 17.25 [438.15] | 120 [54]                      | W                               | SCD 44F           |
| 7.5  | C1F007JES      | NQ6A       | 12.25 [311.15]                       | 9.25 [234.95] | 17.63 [447.81] | 162 [73]                      | W                               | SCD 44F           |
| 10   | C1F010JES      | NQ6        | 12.25 [311.15]                       | 9.25 [234.95] | 20.88 [530.36] | 194 [87]                      | W                               | SCD 44F           |

\* Copper wound unit

600 PRIMARY VOLTAGE 120/240 SECONDARY VOLTAGE 60 HZ

| kVA  | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |                |                | Approx.<br>Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring<br>Diagram |
|------|----------------|------------|--------------------------------------|----------------|----------------|-------------------------------|---------------------------------|-------------------|
|      |                |            | A                                    | B              | C              |                               |                                 |                   |
| 0.05 | C1FC05PE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53]  | 7.19 [182.63]  | 7.0 [3.2]                     | W                               | SCD 4F            |
| 0.10 | C1FC10PE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53]  | 7.19 [182.63]  | 7.0 [3.2]                     | W                               | SCD 4F            |
| 0.15 | C1FC15PE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53]  | 7.19 [182.63]  | 8.0 [3.6]                     | W                               | SCD 4F            |
| 0.25 | C1FC25PE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53]  | 7.19 [182.63]  | 9.0 [4.1]                     | W                               | SCD 4F            |
| 0.35 | C1FC35PE*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23]  | 7.19 [182.63]  | 15.0 [6.8]                    | W                               | SCD 4F            |
| 0.50 | C1FC50PE*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23]  | 7.19 [182.63]  | 16.0 [7.2]                    | W                               | SCD 4F            |
| 0.75 | C1FC75PES*     | NQ2        | 5.06 [128.53]                        | 4.56 [115.83]  | 9.30 [236.22]  | 23.0 [10.4]                   | W                               | SCD 4F            |
| 1    | C1F1C0PES*     | NQ3        | 5.88 [149.36]                        | 5.19 [131.83]  | 10.56 [268.23] | 24.0 [10.8]                   | W                               | SCD 4F            |
| 1.5  | C1F1C5PES*     | NQ3        | 5.88 [149.36]                        | 5.19 [131.83]  | 10.56 [268.23] | 33.0 [14.9]                   | W                               | SCD 4F            |
| 2    | C1F002PES*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75]  | 11.75 [298.45] | 42.0 [18.9]                   | W                               | SCD 4F            |
| 3    | C1F003PES*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75]  | 11.75 [298.45] | 55.0 [24.8]                   | W                               | SCD 4F            |
| 5    | C1F005PES      | NQ5        | 10.00 [254.00]                       | 7.75 [196.85]  | 17.25 [438.15] | 120 [54]                      | W                               | SCD 4F            |
| 7.5  | C1F007PES      | NQ6A       | 12.25 [311.15]                       | 9.25 [234.95]  | 17.63 [447.81] | 148 [67]                      | W                               | SCD 5F            |
| 10   | C1F010PES      | NQ6        | 12.25 [311.15]                       | 9.25 [234.95]  | 20.88 [530.36] | 179 [81]                      | W                               | SCD 5F            |
| 15   | C1F015PES      | NQ7        | 14.50 [368.30]                       | 10.75 [273.05] | 21.38 [543.06] | 265 [119]                     | W                               | SCD 5F            |
| 25   | C1F025PES      | NQ8        | 14.50 [368.30]                       | 10.75 [273.05] | 27.38 [695.46] | 385 [173]                     | W                               | SCD 5F            |
| 37.5 | C1F037PES      | NQS10      | 21.88 [555.76]                       | 18.50 [469.90] | 31.00 [787.40] | 598 [269]                     | F or W*                         | SCD 5F            |

\* Copper wound unit

## Export Model CE

190/200/208/220/240<sup>1</sup> X 380/400/416/440/480<sup>1</sup> PRIMARY VOLTAGE 120/240 SECONDARY VOLTAGE 50/60 HZ

| kVA  | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |               |                | Approx.<br>Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring<br>Diagram |
|------|----------------|------------|--------------------------------------|---------------|----------------|-------------------------------|---------------------------------|-------------------|
|      |                |            | A                                    | B             | C              |                               |                                 |                   |
| 0.05 | C1FC05XE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 7.0 [3.2]                     | W                               | SCD 28F           |
| 0.10 | C1FC10XE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 7.0 [3.2]                     | W                               | SCD 28F           |
| 0.15 | C1FC15XE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 9.0 [4.1]                     | W                               | SCD 28F           |
| 0.25 | C1FC25XE*      | NQ0        | 3.69 [93.73]                         | 5.06 [128.53] | 7.19 [182.63]  | 10.0 [4.5]                    | W                               | SCD 28F           |
| 0.35 | C1FC35XE*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23] | 7.19 [182.63]  | 15.0 [6.8]                    | W                               | SCD 28F           |
| 0.50 | C1FC50XE*      | NQ1        | 4.31 [109.48]                        | 5.56 [141.23] | 7.19 [182.63]  | 16.0 [7.2]                    | W                               | SCD 28F           |
| 0.75 | C1FC75XES*     | NQ2        | 5.06 [128.53]                        | 4.56 [115.83] | 9.30 [236.22]  | 24.0 [10.8]                   | W                               | SCD 28F           |
| 1    | C1F1C0XES*     | NQ3        | 5.88 [149.36]                        | 5.19 [131.83] | 10.56 [268.23] | 32.0 [14.4]                   | W                               | SCD 28F           |
| 1.5  | C1F1C5XES*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75] | 11.75 [298.45] | 37.0 [16.7]                   | W                               | SCD 28F           |
| 2    | C1F002XES*     | NQ4        | 7.06 [179.33]                        | 6.25 [158.75] | 11.75 [298.45] | 52.0 [23.4]                   | W                               | SCD 28F           |
| 3    | C1F003XES*     | NQ5        | 10.00 [254.00]                       | 7.75 [196.85] | 17.25 [438.15] | 97.0 [43.7]                   | W                               | SCD 2F            |
| 5    | C1F005XES      | NQ5        | 10.00 [254.00]                       | 7.75 [196.85] | 17.25 [438.15] | 120 [54]                      | W                               | SCD 2F            |
| 7.5  | C1F007XES      | NQ6A       | 12.25 [311.15]                       | 9.25 [234.95] | 17.63 [447.81] | 148 [67]                      | W                               | SCD 2F            |
| 10   | C1F010XES      | NQ6        | 12.25 [311.15]                       | 9.25 [234.95] | 20.88 [530.36] | 179 [81]                      | W                               | SCD 2F            |

\* Copper wound unit

Note <sup>1</sup> The primary voltage ratio of 240 or 480 is available at 60Hz only with a secondary voltage of approximately 130/262V



# SELECTION TABLES

## Aluminum Wound Three Phase, Type 4 Enclosure



208D PRIMARY VOLTAGE      208Y/120 SECONDARY VOLTAGE      60 HZ

| kVA | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |               |               | Full Capacity Taps    | Approx. Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring Diagram |
|-----|----------------|------------|--------------------------------------|---------------|---------------|-----------------------|----------------------------|---------------------------------|----------------|
|     |                |            | A                                    | B             | C             |                       |                            |                                 |                |
| 6   | FC2A0006BB     | DQT3       | 19.13[485.90]                        | 11.88[301.75] | 14.69[373.13] | 2 - 5% 1FCAN, 1FCBN   | 160 [72.57]                | W/F                             | SCD 8F         |
| 9   | FC2A0009BB     | DQT3A      | 20.38[517.65]                        | 13.00[330.20] | 16.38[416.05] | 2 - 5% 1FCAN, 1FCBN   | 215 [97.52]                | W/F                             | SCD 8F         |
| 15  | FC2A0015BB     | DQT5       | 25.88[657.35]                        | 16.50[419.10] | 21.88[555.75] | 6 - 2.5% 2FCAN, 4FCBN | 375 [170.10]               | F (Opt. W)                      | SCD 19F        |
| 30  | FC2A0030BB     | DQT6       | 26.13[663.70]                        | 19.75[501.65] | 21.88[555.75] | 6 - 2.5% 2FCAN, 4FCBN | 510 [231.33]               | F (Opt. W)                      | SCD 19F        |
| 45  | FC2A0045BB     | DQT7       | 32.38[822.45]                        | 22.00[558.80] | 25.63[651.00] | 6 - 2.5% 2FCAN, 4FCBN | 690 [312.98]               | F                               | SCD 19F        |
| 75  | FC2A0075BB     | DQT8       | 35.13[892.30]                        | 26.00[660.40] | 26.63[676.40] | 4 - 3.5% 2FCAN, 2FCBN | 1350 [612.35]              | F                               | SCD 3F         |

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

208D PRIMARY VOLTAGE      480Y/277 SECONDARY VOLTAGE      60 HZ

| kVA | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |               |               | Full Capacity Taps    | Approx. Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring Diagram |
|-----|----------------|------------|--------------------------------------|---------------|---------------|-----------------------|----------------------------|---------------------------------|----------------|
|     |                |            | A                                    | B             | C             |                       |                            |                                 |                |
| 6   | FC2A0006BK     | DQT3       | 19.13[485.90]                        | 11.88[301.75] | 14.69[373.13] | 2 - 5% 1FCAN, 1FCBN   | 160 [72.57]                | W/F                             | SCD 23F        |
| 9   | FC2A0009BK     | DQT3A      | 20.38[517.65]                        | 13.00[330.20] | 16.38[416.05] | 2 - 5% 1FCAN, 1FCBN   | 215 [97.52]                | W/F                             | SCD 23F        |
| 15  | FC2A0015BK     | DQT5       | 25.88[657.35]                        | 16.50[419.10] | 21.88[555.75] | 6 - 2.5% 2FCAN, 4FCBN | 375 [170.10]               | F (Opt. W)                      | SCD 53F        |
| 30  | FC2A0030BK     | DQT6       | 26.13[663.70]                        | 19.75[501.65] | 21.88[555.75] | 6 - 2.5% 2FCAN, 4FCBN | 510 [231.33]               | F (Opt. W)                      | SCD 53F        |
| 45  | FC2A0045BK     | DQT7       | 32.38[822.45]                        | 22.00[558.80] | 25.63[651.00] | 6 - 2.5% 2FCAN, 4FCBN | 690 [312.98]               | F                               | SCD 53F        |
| 75  | FC2A0075BK     | DQT8       | 35.13[892.30]                        | 26.00[660.40] | 26.63[676.40] | 4 - 3.5% 2FCAN, 2FCBN | 1350 [612.35]              | F                               | SCD 26F        |

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

240D PRIMARY VOLTAGE      208Y/120 SECONDARY VOLTAGE      60 HZ

| kVA | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |               |               | Full Capacity Taps    | Approx. Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring Diagram |
|-----|----------------|------------|--------------------------------------|---------------|---------------|-----------------------|----------------------------|---------------------------------|----------------|
|     |                |            | A                                    | B             | C             |                       |                            |                                 |                |
| 6   | FC2A0006DB     | DQT3       | 19.13[485.90]                        | 11.88[301.75] | 14.69[373.13] | 2 - 5% 1FCAN, 1FCBN   | 160 [72.57]                | W/F                             | SCD 8F         |
| 9   | FC2A0009DB     | DQT3A      | 20.38[517.65]                        | 13.00[330.20] | 16.38[416.05] | 2 - 5% 1FCAN, 1FCBN   | 215 [97.52]                | W/F                             | SCD 8F         |
| 15  | FC2A0015DB     | DQT5       | 25.88[657.35]                        | 16.50[419.10] | 21.88[555.75] | 6 - 2.5% 2FCAN, 4FCBN | 375 [170.10]               | F (Opt. W)                      | SCD 19F        |
| 30  | FC2A0030DB     | DQT6       | 26.13[663.70]                        | 19.75[501.65] | 21.88[555.75] | 6 - 2.5% 2FCAN, 4FCBN | 510 [231.33]               | F (Opt. W)                      | SCD 19F        |
| 45  | FC2A0045DB     | DQT7       | 32.38[822.45]                        | 22.00[558.80] | 25.63[651.00] | 6 - 2.5% 2FCAN, 4FCBN | 690 [312.98]               | F                               | SCD 19F        |
| 75  | FC2A0075DB     | DQT8       | 35.13[892.30]                        | 26.00[660.40] | 26.63[676.40] | 6 - 2.5% 2FCAN, 4FCBN | 1350 [612.35]              | F                               | SCD 19F        |

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

240D PRIMARY VOLTAGE      480Y/277Y SECONDARY VOLTAGE      60 HZ

| kVA | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |               |               | Full Capacity Taps    | Approx. Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring Diagram |
|-----|----------------|------------|--------------------------------------|---------------|---------------|-----------------------|----------------------------|---------------------------------|----------------|
|     |                |            | A                                    | B             | C             |                       |                            |                                 |                |
| 6   | FC2A0006DK     | DQT3       | 19.13[485.90]                        | 11.88[301.75] | 14.69[373.13] | 2 - 5% 1FCAN, 1FCBN   | 160 [72.57]                | W/F                             | SCD 23F        |
| 9   | FC2A0009DK     | DQT3A      | 20.38[517.65]                        | 13.00[330.20] | 16.38[416.05] | 2 - 5% 1FCAN, 1FCBN   | 215 [97.52]                | W/F                             | SCD 23F        |
| 15  | FC2A0015DK     | DQT5       | 25.88[657.35]                        | 16.50[419.10] | 21.88[555.75] | 6 - 2.5% 2FCAN, 4FCBN | 375 [170.10]               | F (Opt. W)                      | SCD 53F        |
| 30  | FC2A0030DK     | DQT6       | 26.13[663.70]                        | 19.75[501.65] | 21.88[555.75] | 6 - 2.5% 2FCAN, 4FCBN | 510 [231.33]               | F (Opt. W)                      | SCD 53F        |
| 45  | FC2A0045DK     | DQT7       | 32.38[822.45]                        | 22.00[558.80] | 25.63[651.00] | 6 - 2.5% 2FCAN, 4FCBN | 690 [312.98]               | F                               | SCD 53F        |
| 75  | FC2A0075DK     | DQT8       | 35.13[892.30]                        | 26.00[660.40] | 26.63[676.40] | 6 - 2.5% 2FCAN, 4FCBN | 1350 [612.35]              | F                               | SCD 53F        |

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

480D PRIMARY VOLTAGE      208Y/120 SECONDARY VOLTAGE      60 HZ

| kVA | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |               |               | Full Capacity Taps    | Approx. Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring Diagram |
|-----|----------------|------------|--------------------------------------|---------------|---------------|-----------------------|----------------------------|---------------------------------|----------------|
|     |                |            | A                                    | B             | C             |                       |                            |                                 |                |
| 6   | FC2A0006KB     | DQT3       | 19.13[485.90]                        | 11.88[301.75] | 14.69[373.13] | 2 - 5% 1FCAN, 1FCBN   | 160 [72.57]                | W/F                             | SCD 8F         |
| 9   | FC2A0009KB     | DQT3A      | 20.38[517.65]                        | 13.00[330.20] | 16.38[416.05] | 2 - 5% 1FCAN, 1FCBN   | 215 [97.52]                | W/F                             | SCD 8F         |
| 15  | FC2A0015KB     | DQT5       | 25.88[657.35]                        | 16.50[419.10] | 21.88[555.75] | 6 - 2.5% 2FCAN, 4FCBN | 375 [170.10]               | F (Opt. W)                      | SCD 19F        |
| 30  | FC2A0030KB     | DQT6       | 26.13[663.70]                        | 19.75[501.65] | 21.88[555.75] | 6 - 2.5% 2FCAN, 4FCBN | 510 [231.33]               | F (Opt. W)                      | SCD 19F        |
| 45  | FC2A0045KB     | DQT7       | 32.38[822.45]                        | 22.00[558.80] | 25.63[651.00] | 6 - 2.5% 2FCAN, 4FCBN | 690 [312.98]               | F                               | SCD 19F        |
| 75  | FC2A0075KB     | DQT8       | 35.13[892.30]                        | 26.00[660.40] | 26.63[676.40] | 6 - 2.5% 2FCAN, 4FCBN | 1350 [612.35]              | F                               | SCD 19F        |

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

# SELECTION TABLES

## Aluminum Wound Three Phase, Type 4 Enclosure



| 480D PRIMARY VOLTAGE |                |            | 240Y/139 SECONDARY VOLTAGE           |                |                | 60 HZ                 |                            |                                 |                |
|----------------------|----------------|------------|--------------------------------------|----------------|----------------|-----------------------|----------------------------|---------------------------------|----------------|
| kVA                  | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |                |                | Full Capacity Taps    | Approx. Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring Diagram |
|                      |                |            | A                                    | B              | C              |                       |                            |                                 |                |
| 6                    | FC2A0006KD     | DQT3       | 19.13[485.90]                        | 11.88 [301.75] | 14.69 [373.13] | 2 - 5% 1FCAN, 1FCBN   | 160 [72.57]                | W/F                             | SCD 8F         |
| 9                    | FC2A0009KD     | DQT3A      | 20.38 [517.65]                       | 13.00 [330.20] | 16.38 [416.05] | 2 - 5% 1FCAN, 1FCBN   | 215 [97.52]                | W/F                             | SCD 8F         |
| 15                   | FC2A0015KD     | DQT5       | 25.88 [657.35]                       | 16.50 [419.10] | 21.88 [555.75] | 6 - 2.5% 2FCAN, 4FCBN | 375 [170.10]               | F (Opt. W)                      | SCD 19F        |
| 30                   | FC2A0030KD     | DQT6       | 26.13 [663.70]                       | 19.75 [501.65] | 21.88 [555.75] | 6 - 2.5% 2FCAN, 4FCBN | 510 [231.33]               | F (Opt. W)                      | SCD 19F        |
| 45                   | FC2A0045KD     | DQT7       | 32.38 [822.45]                       | 22.00 [558.80] | 25.63 [651.00] | 6 - 2.5% 2FCAN, 4FCBN | 690 [312.98]               | F                               | SCD 19F        |
| 75                   | FC2A0075KD     | DQT8       | 35.13 [892.30]                       | 26.00 [660.40] | 26.63 [676.40] | 6 - 2.5% 2FCAN, 4FCBN | 1350 [612.35]              | F                               | SCD 19F        |

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

| 600D PRIMARY VOLTAGE |                |            | 208Y/120 SECONDARY VOLTAGE           |                |                | 60 HZ                 |                            |                                 |                |
|----------------------|----------------|------------|--------------------------------------|----------------|----------------|-----------------------|----------------------------|---------------------------------|----------------|
| kVA                  | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |                |                | Full Capacity Taps    | Approx. Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring Diagram |
|                      |                |            | A                                    | B              | C              |                       |                            |                                 |                |
| 6                    | FC2A0006PB     | DQT3       | 19.13[485.90]                        | 11.88 [301.75] | 14.69 [373.13] | 2 - 5% 1FCAN, 1FCBN   | 160 [72.57]                | W/F                             | SCD 8F         |
| 9                    | FC2A0009PB     | DQT3A      | 20.38 [517.65]                       | 13.00 [330.20] | 16.38 [416.05] | 2 - 5% 1FCAN, 1FCBN   | 215 [97.52]                | W/F                             | SCD 8F         |
| 15                   | FC2A0015PB     | DQT5       | 25.88 [657.35]                       | 16.50 [419.10] | 21.88 [555.75] | 6 - 2.5% 2FCAN, 4FCBN | 375 [170.10]               | F (Opt. W)                      | SCD 19F        |
| 30                   | FC2A0030PB     | DQT6       | 26.13 [663.70]                       | 19.75 [501.65] | 21.88 [555.75] | 6 - 2.5% 2FCAN, 4FCBN | 510 [231.33]               | F (Opt. W)                      | SCD 19F        |
| 45                   | FC2A0045PB     | DQT7       | 32.38 [822.45]                       | 22.00 [558.80] | 25.63 [651.00] | 6 - 2.5% 2FCAN, 4FCBN | 690 [312.98]               | F                               | SCD 19F        |
| 75                   | FC2A0075PB     | DQT8       | 35.13 [892.30]                       | 26.00 [660.40] | 26.63 [676.40] | 6 - 2.5% 2FCAN, 4FCBN | 1350 [612.35]              | F                               | SCD 19F        |

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

| 600D PRIMARY VOLTAGE |                |            | 240Y/139 SECONDARY VOLTAGE           |                |                | 60 HZ                 |                            |                                 |                |
|----------------------|----------------|------------|--------------------------------------|----------------|----------------|-----------------------|----------------------------|---------------------------------|----------------|
| kVA                  | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |                |                | Full Capacity Taps    | Approx. Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring Diagram |
|                      |                |            | A                                    | B              | C              |                       |                            |                                 |                |
| 6                    | FC2A0006PD     | DQT3       | 19.13[485.90]                        | 11.88 [301.75] | 14.69 [373.13] | 2 - 5% 1FCAN, 1FCBN   | 160 [72.57]                | W/F                             | SCD 8F         |
| 9                    | FC2A0009PD     | DQT3A      | 20.38 [517.65]                       | 13.00 [330.20] | 16.38 [416.05] | 2 - 5% 1FCAN, 1FCBN   | 215 [97.52]                | W/F                             | SCD 8F         |
| 15                   | FC2A0015PD     | DQT5       | 25.88 [657.35]                       | 16.50 [419.10] | 21.88 [555.75] | 6 - 2.5% 2FCAN, 4FCBN | 375 [170.10]               | F (Opt. W)                      | SCD 19F        |
| 30                   | FC2A0030PD     | DQT6       | 26.13 [663.70]                       | 19.75 [501.65] | 21.88 [555.75] | 6 - 2.5% 2FCAN, 4FCBN | 510 [231.33]               | F (Opt. W)                      | SCD 19F        |
| 45                   | FC2A0045PD     | DQT7       | 32.38 [822.45]                       | 22.00 [558.80] | 25.63 [651.00] | 6 - 2.5% 2FCAN, 4FCBN | 690 [312.98]               | F                               | SCD 19F        |
| 75                   | FC2A0075PD     | DQT8       | 35.13 [892.30]                       | 26.00 [660.40] | 26.63 [676.40] | 6 - 2.5% 2FCAN, 4FCBN | 1350 [612.35]              | F                               | SCD 19F        |

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

| 600D PRIMARY VOLTAGE |                |            | 480Y/277 SECONDARY VOLTAGE           |                |                | 60 HZ                 |                            |                                 |                |
|----------------------|----------------|------------|--------------------------------------|----------------|----------------|-----------------------|----------------------------|---------------------------------|----------------|
| kVA                  | Catalog Number | Case Style | Overall Dimensions*<br>- Inches [mm] |                |                | Full Capacity Taps    | Approx. Weight<br>Lbs [kg] | Mtg Type<br>W -Wall<br>F -Floor | Wiring Diagram |
|                      |                |            | A                                    | B              | C              |                       |                            |                                 |                |
| 6                    | FC2A0006PK     | DQT3       | 19.13[485.90]                        | 11.88 [301.75] | 14.69 [373.13] | 2 - 5% 1FCAN, 1FCBN   | 160 [72.57]                | W/F                             | SCD 8F         |
| 9                    | FC2A0009PK     | DQT3A      | 20.38 [517.65]                       | 13.00 [330.20] | 16.38 [416.05] | 2 - 5% 1FCAN, 1FCBN   | 215 [97.52]                | W/F                             | SCD 8F         |
| 15                   | FC2A0015PK     | DQT5       | 25.88 [657.35]                       | 16.50 [419.10] | 21.88 [555.75] | 6 - 2.5% 2FCAN, 4FCBN | 375 [170.10]               | F (Opt. W)                      | SCD 19F        |
| 30                   | FC2A0030PK     | DQT6       | 26.13 [663.70]                       | 19.75 [501.65] | 21.88 [555.75] | 6 - 2.5% 2FCAN, 4FCBN | 510 [231.33]               | F (Opt. W)                      | SCD 19F        |
| 45                   | FC2A0045PK     | DQT7       | 32.38 [822.45]                       | 22.00 [558.80] | 25.63 [651.00] | 6 - 2.5% 2FCAN, 4FCBN | 690 [312.98]               | F                               | SCD 19F        |
| 75                   | FC2A0075PK     | DQT8       | 35.13 [892.30]                       | 26.00 [660.40] | 26.63 [676.40] | 6 - 2.5% 2FCAN, 4FCBN | 1350 [612.35]              | F                               | SCD 19F        |

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

## ACCESSORIES

### Wall Mounting Kit

#### Single Phase

The following wall mounting kits are available:

| Enclosure Case Style* | Mounting Type | Wall Mounting Kit Part Number |
|-----------------------|---------------|-------------------------------|
| NQ0-NQ8               | Wall          | Included                      |
| NQS10                 | Wall or Floor | NQTW2                         |

#### Features Included

- Manufactured from heavy-duty angle steel for maximum support.
- Wall mounting brackets are finished in matching ANSI 61 UL 50 Grey.
- All hardware required to attach to the transformer is supplied.
- Mounting brackets come with three wall mounting holes for maximum holding strength.

#### Three Phase

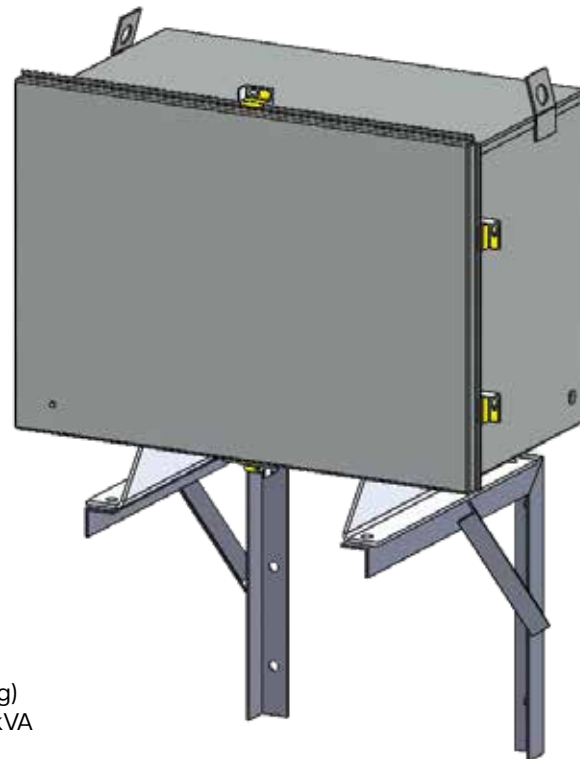
The following wall mounting kit is specifically designed for the three phase HPS encapsulated transformers for commercial applications:

| Enclosure Case Style* | Mounting Type | Wall Mounting Kit Part Number |
|-----------------------|---------------|-------------------------------|
| DQT5-DQT6             | Wall          | DQTW1                         |

The DQTW1 kit can only be used on any unit, up to a maximum of 800 pounds (363 kg) and utilizes an HPS DQT5 or DQT6 enclosure. Generally, this would be a 15kVA or 30kVA HPS encapsulated transformers for commercial application units.

#### IMPORTANT

Please ensure your wall mounting location and position meets all local building and fire codes and regulations.



Note: The above image is showing a three phase unit.

## TYPICAL PERFORMANCE DATA

### GENERAL PURPOSE

#### Three Phase

VOLTAGE RANGE 120V TO 600V  
135°C TEMP. RISE

| kVA | Impedance | Peak Inrush Current<br>Multiple of RMS Current |
|-----|-----------|------------------------------------------------|
| 6   | 2-5%      | 20 to 30                                       |
| 9   |           |                                                |
| 15  |           |                                                |
| 30  | 1.8-2.5%  | 10 to 20                                       |
| 45  |           |                                                |
| 75  |           |                                                |

| kVA | Efficiency (% rated load) |        |        |
|-----|---------------------------|--------|--------|
|     | 100%                      | 50%    | 35%    |
| 6   | 92.91%                    | 94.22% | 93.96% |
| 9   | 93.29%                    | 94.72% | 95.25% |
| 15  | 94.50%                    | 95.64% | 95.97% |
| 30  | 95.28%                    | 96.35% | 96.97% |
| 45  | 98.28%                    | 98.49% | 98.05% |
| 75  | 98.39%                    | 98.67% | 98.53% |

- Efficiencies are approximate, and not guaranteed.

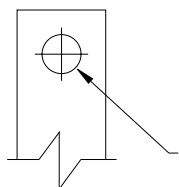
- All efficiencies are based on 75°C reference temperature.

## TERMINATION DETAILS

### TERMINATION, LEADS OR PADS

#### Single Phase Voltage (Primary or Secondary)

| kVA  | Voltage |         |         |                 |         |      |         |         |         |      |      |
|------|---------|---------|---------|-----------------|---------|------|---------|---------|---------|------|------|
|      | 120x240 | 120/240 | 208x416 | 120/208/240/277 | 240x480 | 277  | 277/480 | 208/277 | 347/380 | 600  |      |
| 0.05 |         |         |         |                 |         |      |         |         |         |      |      |
| 0.1  |         |         |         |                 |         |      |         |         |         |      |      |
| 0.15 |         |         |         |                 |         |      |         |         |         |      |      |
| 0.25 |         |         |         |                 |         |      |         |         |         |      |      |
| 0.35 |         |         |         |                 |         |      |         |         |         |      |      |
| 0.5  |         |         |         |                 |         |      |         |         |         |      |      |
| 0.75 |         |         |         |                 |         |      |         |         |         |      |      |
| 1    |         |         |         |                 |         |      |         |         |         |      |      |
| 1.5  |         |         |         |                 |         |      |         |         |         |      |      |
| 2    |         |         |         |                 |         |      |         |         |         |      |      |
| 3    |         |         |         |                 |         |      |         |         |         |      |      |
| 5    |         |         |         |                 |         |      |         |         |         |      |      |
| 7.5  | LUG1    | 1A      | LUG1    | LUG1            | LUG1    | LUG1 | LUG1    | 1A      | LUG1    | LUG1 | LUG1 |
| 10   | LUG1    | 1A      | LUG1    | LUG1            | LUG2    | LUG1 | LUG1    | 1B      | LUG1    | LUG1 | LUG1 |
| 15   | N/A     | 1A      | N/A     | N/A             | LUG2    | N/A  | N/A     | N/A     | N/A     | 1A   | LUG1 |
| 25   | N/A     | 1B      | N/A     | N/A             | LUG3    | N/A  | N/A     | N/A     | N/A     | 1A   | N/A  |
| 37.5 | N/A     | 1C      | N/A     | N/A             | LUG3    | N/A  | N/A     | N/A     | N/A     | 1C   | N/A  |

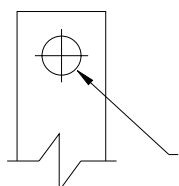


1A = 0.22" Dia.  
1B = 0.28" Dia.  
1C = 0.34" Dia.  
1D = 0.44" Dia.

Diagram 1 - Single Phase

#### Three Phase Voltage (Primary or Secondary)

| kVA | Voltage |     |     |     |     |     |     |     |
|-----|---------|-----|-----|-----|-----|-----|-----|-----|
|     | 208     | 230 | 240 | 277 | 380 | 400 | 480 | 600 |
| 6   |         |     |     |     |     |     |     |     |
| 9   |         |     |     |     |     |     |     |     |
| 15  | 1A      | 1A  | 1A  | 1A  | 1A  | 1A  | 1A  | 1A  |
| 30  | 1A      | 1A  | 1A  | 1A  | 1A  | 1A  | 1A  | 1A  |
| 45  | 1B      | 1A  | 1A  | 1A  | 1A  | 1A  | 1A  | 1A  |
| 75  | 1B      | 1B  | 1B  | 1B  | 1A  | 1A  | 1A  | 1A  |



1A = 0.28" Dia.  
1B = 0.44" Dia.

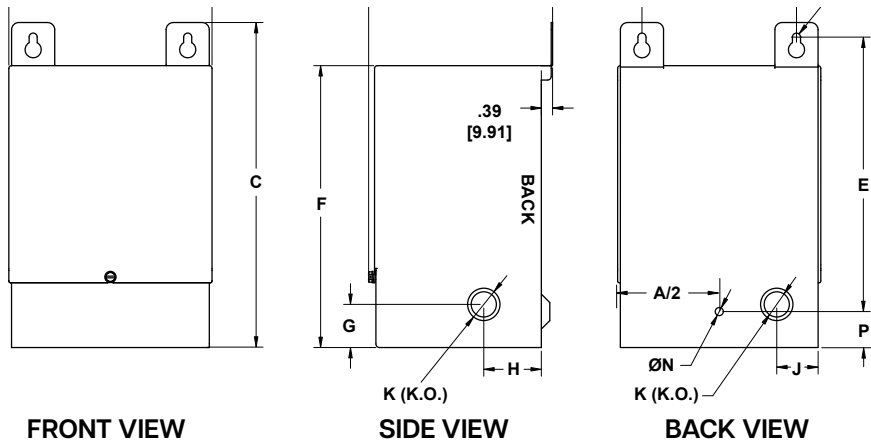
Diagram 1 - Three Phase



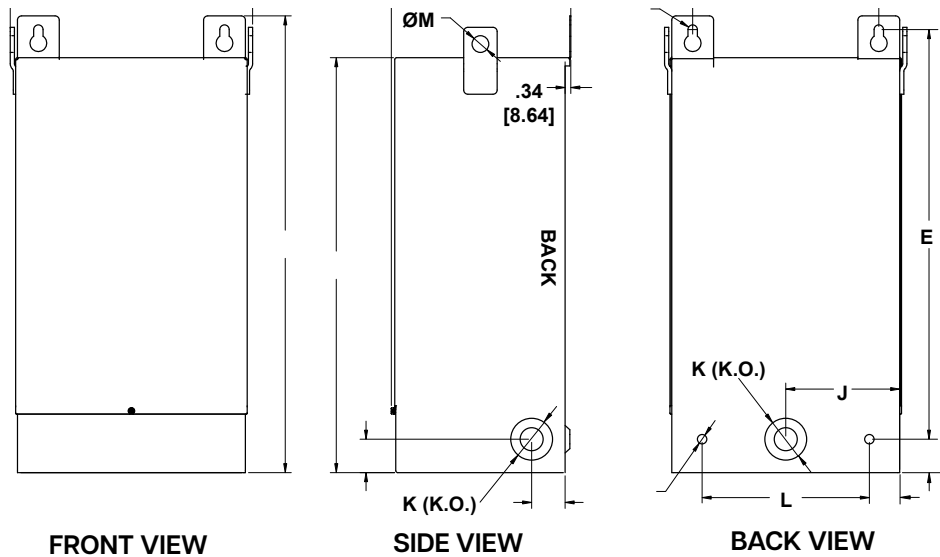
# ENCLOSURE DRAWINGS & DIMENSIONS

## NQ SERIES - SINGLE PHASE

**Figure 1**



**Figure 2**



| Case Style | Fig # | A                 | B                 | C                 | D                 | E                 | F                 | G                | H               | J                | K <sup>1</sup>                                | L                 | M               | N               | P               | R               |
|------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-----------------|------------------|-----------------------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| NQ0        | 1     | 3.69<br>[93.73]   | 5.06<br>[128.53]  | 7.19<br>[182.63]  | 2.50<br>[63.50]   | 5.63<br>[143.01]  | 6.19<br>[157.23]  | 1.50<br>[38.10]  | 2.00<br>[50.80] | --               | 0.88 [22.36]                                  | --                | --              | 0.22<br>[5.59]  | 1.25<br>[31.75] | --              |
| NQ1        | 1     | 4.31<br>[109.48]  | 5.56<br>[141.23]  | 7.19<br>[182.63]  | 3.13<br>[79.51]   | 5.63<br>[143.01]  | 6.13<br>[155.71]  | 1.50<br>[38.10]  | 2.00<br>[50.80] | 0.81<br>[20.58]  | 0.88 [22.36]                                  | --                | --              | 0.22<br>[5.59]  | 1.25<br>[31.75] | --              |
| NQ2        | 1     | 5.06<br>[128.53]  | 4.56<br>[115.83]  | 9.30<br>[236.22]  | 3.88<br>[98.56]   | 7.75<br>[196.85]  | 8.30<br>[210.82]  | 1.50<br>[38.10]  | 2.00<br>[50.80] | 1.00<br>[25.40]  | 0.88 x 1.13 x 1.38<br>[22.36 x 28.71 x 35.06] | --                | --              | 0.22<br>[5.59]  | 1.25<br>[31.75] | --              |
| NQ3        | 1     | 5.88<br>[149.36]  | 5.19<br>[131.83]  | 10.56<br>[268.23] | 4.13<br>[104.91]  | 8.31<br>[211.08]  | 9.06<br>[230.13]  | 1.50<br>[38.10]  | 2.00<br>[50.80] | 1.25<br>[31.75]  | 0.88 x 1.13 x 1.38<br>[22.36 x 28.71 x 35.06] | --                | --              | 0.28<br>[7.12]  | 1.25<br>[31.75] | --              |
| NQ4        | 1     | 7.06<br>[179.33]  | 6.25<br>[158.75]  | 11.75<br>[298.45] | 5.38<br>[136.66]  | 10.00<br>[254.00] | 10.30<br>[261.62] | 1.25<br>[31.75]  | 2.00<br>[50.80] | 1.50<br>[38.10]  | 0.88 x 1.13 x 1.38<br>[22.36 x 28.71 x 35.06] | --                | --              | 0.28<br>[7.12]  | 1.25<br>[31.75] | --              |
| NQ5        | 2     | 10.00<br>[254.00] | 7.75<br>[196.85]  | 17.25<br>[438.15] | 7.38<br>[187.46]  | 15.38<br>[390.66] | 15.25<br>[387.35] | 2.375<br>[60.33] | 2.00<br>[50.80] | 4.00<br>[101.60] | 1.13 x 1.38<br>[28.71 x 35.06]                | 6.00<br>[152.40]  | 0.75<br>[19.05] | 0.44<br>[11.18] | 1.25<br>[31.75] | 1.68<br>[42.68] |
| NQ6A       | 2     | 12.25<br>[311.15] | 9.25<br>[234.95]  | 17.63<br>[447.81] | 9.38<br>[238.26]  | 14.88<br>[377.96] | 15.56<br>[395.23] | 2.00<br>[50.80]  | 2.00<br>[50.80] | 5.00<br>[127.00] | 1.38 x 2.50<br>[35.06 x 63.50]                | 8.00<br>[203.20]  | 0.75<br>[19.05] | 0.44<br>[11.18] | 2.00<br>[50.80] | 1.68<br>[42.68] |
| NQ6        | 2     | 12.25<br>[311.15] | 9.25<br>[234.95]  | 20.88<br>[530.36] | 9.38<br>[238.26]  | 18.13<br>[460.51] | 18.88<br>[479.56] | 2.00<br>[50.80]  | 2.00<br>[50.80] | 5.00<br>[127.00] | 1.38 x 2.50<br>[35.06 x 63.50]                | 8.00<br>[203.20]  | 0.75<br>[19.05] | 0.44<br>[11.18] | 2.00<br>[50.80] | 1.68<br>[42.68] |
| NQ7        | 2     | 14.50<br>[368.30] | 10.75<br>[273.05] | 21.38<br>[543.06] | 11.63<br>[295.41] | 18.63<br>[473.21] | 19.38<br>[492.26] | 2.00<br>[50.80]  | 2.00<br>[50.80] | 6.00<br>[152.40] | 1.38 x 2.50<br>[35.06 x 63.50]                | 10.00<br>[254.00] | 0.75<br>[19.05] | 0.44<br>[11.18] | 2.00<br>[50.80] | 1.68<br>[42.68] |
| NQ8        | 2     | 14.50<br>[368.30] | 10.75<br>[273.05] | 27.38<br>[695.46] | 11.13<br>[282.71] | 24.50<br>[622.30] | 24.88<br>[631.96] | 2.00<br>[50.80]  | 2.00<br>[50.80] | 6.00<br>[152.40] | 1.38 x 2.50<br>[35.06 x 63.50]                | 10.00<br>[254.00] | 0.75<br>[19.05] | 0.56<br>[14.23] | 2.00<br>[50.80] | 1.68<br>[42.68] |

<sup>1</sup> Knockout (K) sizes are actual diameters of knockout, not conduit sizes

# ENCLOSURE DRAWINGS & DIMENSIONS

## DQT SERIES - THREE PHASE

Figure 1

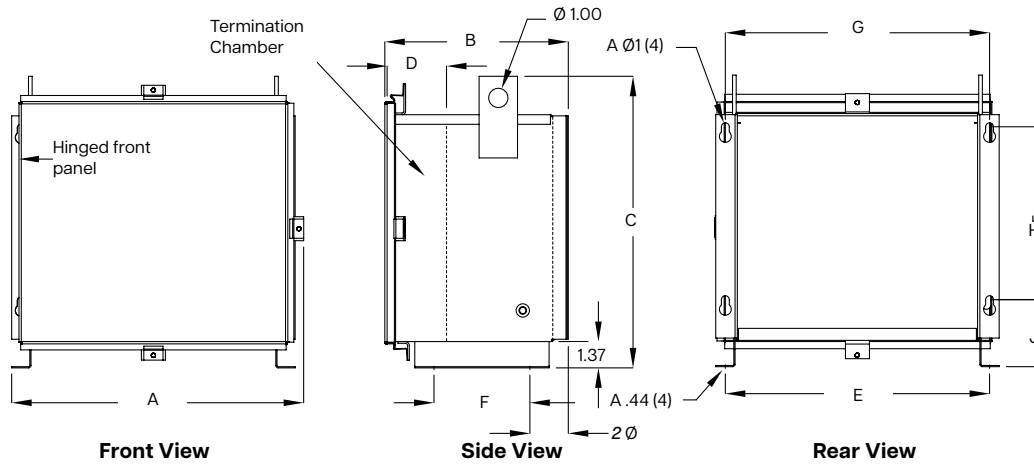
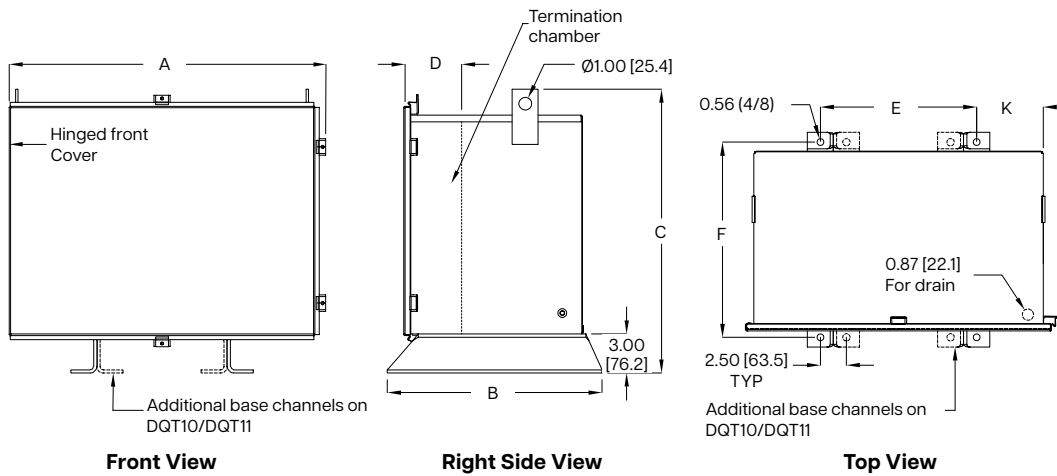


Figure 2



| Case Style  | Fig. # | Dimensions in Inches [Millimeter] |                |                |               |                |                |                |               |              |               |
|-------------|--------|-----------------------------------|----------------|----------------|---------------|----------------|----------------|----------------|---------------|--------------|---------------|
|             |        | A                                 | B              | C              | D*            | E              | F              | G              | H             | J            | K             |
| DQT1        | 1      | 13.13<br>[333]                    | 9.13<br>[232]  | 13.38<br>[340] | 2.50<br>[63]  | 11.50<br>[292] | 5.25<br>[133]  | 11.50<br>[292] | 6.50<br>[165] | 3.69<br>[94] | -             |
| DQT2        | 1      | 15.88<br>[403]                    | 9.88<br>[251]  | 15.38<br>[391] | 2.50<br>[63]  | 14.25<br>[362] | 6.00<br>[152]  | 14.25<br>[362] | 8.00<br>[203] | 3.69<br>[94] | -             |
| <b>DQT3</b> | 1      | 19.13<br>[485]                    | 11.88<br>[302] | 14.69<br>[373] | 3.00<br>[76]  | 17.50<br>[444] | 8.00<br>[203]  | 17.50<br>[444] | 8.00<br>[203] | 3.44<br>[87] | -             |
| <b>DQ3A</b> | 1      | 20.38<br>[518]                    | 13.00<br>[330] | 16.38<br>[416] | 3.0<br>[76]   | 18.75<br>[476] | 9.00<br>[229]  | 18.75<br>[476] | 9.00<br>[229] | 3.44<br>[87] | -             |
| DQT4        | 1      | 22.38<br>[569]                    | 13.88<br>[352] | 17.25<br>[438] | 5.00<br>[127] | 20.75<br>[527] | 10.00<br>[254] | 20.75<br>[527] | 9.00<br>[229] | 3.69<br>[94] | -             |
| DQT5        | 2      | 25.88<br>[657]                    | 16.50<br>[419] | 21.88<br>[556] | 4.50<br>[114] | 14.00<br>[356] | 15.00<br>[381] | -              | -             | -            | 4.62<br>[117] |
| DQT6        | 2      | 26.13<br>[664]                    | 19.75<br>[501] | 21.88<br>[556] | 5.50<br>[140] | 14.00<br>[356] | 18.25<br>[463] | -              | -             | -            | 4.75<br>[121] |
| DQT7        | 2      | 32.38<br>[822]                    | 22.00<br>[559] | 25.63<br>[651] | 6.00<br>[152] | 20.00<br>[508] | 20.50<br>[521] | -              | -             | -            | 4.88<br>[124] |
| DQT8        | 2      | 35.13<br>[892]                    | 26.00<br>[660] | 26.63<br>[676] | 6.00<br>[152] | 20.00<br>[508] | 24.50<br>[622] | -              | -             | -            | 6.25<br>[159] |

\*D represents the typical minimum depth of the termination chamber (conduit fittings should be sized within these limits)

# ELECTRICAL SCHEMATICS & CONNECTION DRAWINGS

## SCD 1F

| Schematic |  |  |  | Connections     |     |               |
|-----------|--|--|--|-----------------|-----|---------------|
|           |  |  |  | Primary Volts   |     | Inter-connect |
|           |  |  |  | 240             | 480 | H2-H3         |
|           |  |  |  | 120             | 240 | H1-H3, H2-H4  |
|           |  |  |  | Secondary Volts |     | Inter-connect |
|           |  |  |  | 24              | 32  | X2-X3         |

## SCD 2F

| Schematic |  |  |  | Connections     |               |               |
|-----------|--|--|--|-----------------|---------------|---------------|
|           |  |  |  | % Voltage       | Primary Volts | Inter-connect |
|           |  |  |  | 105.0%          | 504           | 1-2           |
|           |  |  |  | 102.5%          | 492           | 2-3           |
|           |  |  |  | <b>100.0%</b>   | <b>480</b>    | <b>3-4</b>    |
|           |  |  |  | 97.5%           | 468           | 4-5           |
|           |  |  |  | 95.0%           | 456           | 5-6           |
|           |  |  |  | 92.5%           | 444           | 6-7           |
|           |  |  |  | 90.0%           | 432           | 7-8           |
|           |  |  |  | 220             |               | H1-2, H2-1    |
|           |  |  |  | 240             | 208           | H1-4, H2-3    |
|           |  |  |  | 228             | 200           | H1-6, H2-5    |
|           |  |  |  | 216             | 190           | H1-8, H2-7    |
|           |  |  |  | Secondary Volts |               | Inter-connect |
|           |  |  |  | 240             |               | X2-X3         |
|           |  |  |  | 120             |               | X2-X4, X1-X3  |

## SCD 3F

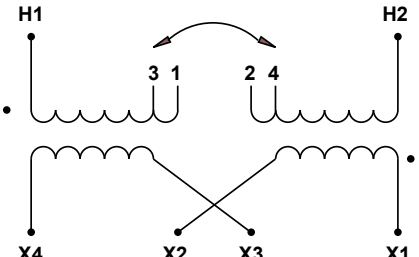
| Schematic |  |  |  | Connections     |               |                          |
|-----------|--|--|--|-----------------|---------------|--------------------------|
|           |  |  |  | % Voltage       | Primary Volts | Inter-connect            |
|           |  |  |  | 105.0%          | 219           | 1                        |
|           |  |  |  | 102.5%          | 213           | 2                        |
|           |  |  |  | <b>100.0%</b>   | <b>208</b>    | <b>3</b>                 |
|           |  |  |  | 97.5%           | 203           | 4                        |
|           |  |  |  | 95.0%           | 198           | 5                        |
|           |  |  |  | Secondary Volts |               | Inter-connect            |
|           |  |  |  | 208             | 240           | X1, X2, X3               |
|           |  |  |  | 120             | 139           | X1, X0   X2, X0   X3, X0 |

# ELECTRICAL SCHEMATICS & CONNECTION DRAWINGS

## SCD 4F

| Schematic                                                                         | Connections     |     |     |     |     |     |       |      |      |      |      |        |                  |               |
|-----------------------------------------------------------------------------------|-----------------|-----|-----|-----|-----|-----|-------|------|------|------|------|--------|------------------|---------------|
|  | Primary Volts   |     |     |     |     |     |       |      |      |      |      |        | Connect lines to | Inter-connect |
|                                                                                   | 208             | 277 | 347 | 380 | 416 | 600 | 2400  | 3300 | 4160 | 4800 | 6600 | 7200   | H1, H2           | -             |
|                                                                                   | Secondary Volts |     |     |     |     |     |       |      |      |      |      |        | Connect lines to | Inter-connect |
|                                                                                   | 240             |     |     |     |     |     | 24    |      |      |      |      |        | X1, X4           | X2-X3         |
|                                                                                   | 120/240         |     |     |     |     |     | 12/24 |      |      |      |      |        | X1, X2, X4       | X2-X3         |
| 120                                                                               |                 |     |     |     |     | 12  |       |      |      |      |      | X1, X2 | X2-X4, X1-X3     |               |

## SCD 5F

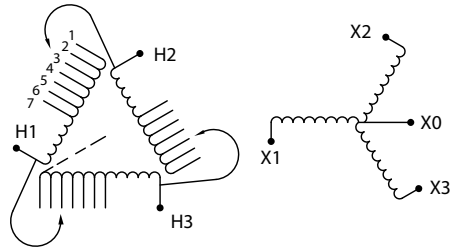
| Schematic                                                                          | Connections     |     |               |     |     |        |                  |               |                  |               |     |
|------------------------------------------------------------------------------------|-----------------|-----|---------------|-----|-----|--------|------------------|---------------|------------------|---------------|-----|
|  | % Voltage       |     | Primary Volts |     |     |        |                  |               | Connect lines to | Inter-connect |     |
|                                                                                    | 100.0%          | 120 | 208           | 240 | 277 | 380    | 416              | 480           | 600              | H1, H2        | 1-2 |
|                                                                                    | 95.0%           | 114 | 198           | 228 | 263 | 361    | 395              | 156           | 570              | H1, H2        | 2-3 |
|                                                                                    | 90.0%           | 108 | 188           | 216 | 249 | 347    | 374              | 432           | 540              | H1, H2        | 3-4 |
|                                                                                    | Secondary Volts |     |               |     |     |        | Connect lines to | Inter-connect |                  |               |     |
|                                                                                    | 240             |     |               |     |     |        | X1, X4           | X2-X3         |                  |               |     |
|                                                                                    | 120/240         |     |               |     |     |        | X1, X2, X4       | X2-X3         |                  |               |     |
| 120                                                                                |                 |     |               |     |     | X1, X2 | X2-X4, X1-X3     |               |                  |               |     |

## SCD 8F

| Schematic |                 | Connections   |                          |                  |                  |               |
|-----------|-----------------|---------------|--------------------------|------------------|------------------|---------------|
|           | % Voltage       | Primary Volts |                          |                  | Connect lines to | Inter-connect |
|           | 105.0%          | 252           | 504                      | 630              | H1, H2, H3       | 1-2           |
|           | 100.0%          | 240           | 480                      | 600              | H1, H2, H3       | 2-3           |
|           | 95.0%           | 228           | 456                      | 570              | H1, H2, H3       | 3-4           |
|           | Secondary Volts |               |                          | Connect lines to | Inter-connect    |               |
|           | 208             | 240           | 480                      | X1, X2, X3       | -                |               |
| 120       | 139             | 277           | X1, X0   X2, X0   X3, X0 | -                |                  |               |

## SCD 19F

### Schematic

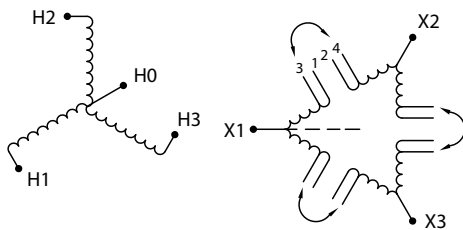


### Connections

| % Voltage       |     | Primary Volts |     |                          | Connect lines to | Inter-connect |
|-----------------|-----|---------------|-----|--------------------------|------------------|---------------|
| 105.0%          | 219 | 252           | 504 | 630                      | H1, H2, H3       | 1             |
| 102.5%          | 213 | 246           | 492 | 615                      | H1, H2, H3       | 2             |
| 100.0%          | 208 | 240           | 480 | 600                      | H1, H2, H3       | 3             |
| 97.5%           | 203 | 234           | 468 | 585                      | H1, H2, H3       | 4             |
| 95.0%           | 198 | 228           | 456 | 570                      | H1, H2, H3       | 5             |
| 92.5%           | 193 | 222           | 445 | 556                      | H1, H2, H3       | 6             |
| 90.0%           | 188 | 217           | 434 | 542                      | H1, H2, H3       | 7             |
| Secondary Volts |     |               |     | Connect lines to         | Inter-connect    |               |
|                 | 208 | 240           | 400 | X1, X2, X3               | -                |               |
|                 | 120 | 139           | 231 | X1, X0   X2, X0   X3, X0 | -                |               |

## SCD 23F

### Schematic

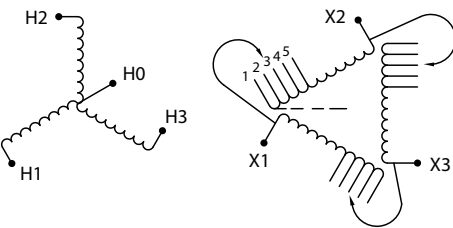


### Connections

| % Voltage       | Primary Volts |                  | Connect lines to         | Inter-connect |
|-----------------|---------------|------------------|--------------------------|---------------|
| 105.0%          | 218           | 252              | X1, X2, X3               | 1-2           |
| 100.0%          | 208           | 240              | X1, X2, X3               | 2-3           |
| 95.0%           | 198           | 228              | X1, X2, X3               | 3-4           |
| Secondary Volts |               | Connect lines to |                          | Inter-connect |
|                 | 240           | 480              | H1, H2, H3               | -             |
|                 | 139           | 277              | H1, HO   H2, HO   H3, HO | -             |

## SCD 26F

### Schematic



### Connections

| % Voltage       | Primary Volts |                  | Connect lines to         | Inter-connect |
|-----------------|---------------|------------------|--------------------------|---------------|
| 107.0%          | 223           |                  | X1, X2, X3               | 1             |
| 103.5%          | 215           |                  | X1, X2, X3               | 2             |
| 100.0%          | 208           |                  | X1, X2, X3               | 3             |
| 96.5%           | 201           |                  | X1, X2, X3               | 4             |
| 93.0%           | 193           |                  | X1, X2, X3               | 5             |
| Secondary Volts |               | Connect lines to |                          | Inter-connect |
|                 | 240           | 480              | H1, H2, H3               | -             |
|                 | 139           | 277              | H1, H0   H2, H0   H3, H0 | -             |



# ELECTRICAL SCHEMATICS & CONNECTION DRAWINGS

## SCD 28F

| Schematic | Connections     |                  |               |
|-----------|-----------------|------------------|---------------|
|           | Primary Volts   | Connect lines to | Inter-connect |
|           | 480 (60Hz)      | H1, H10          | H5-H6         |
|           | 440             | H1, H10          | H5-H6         |
|           | 416             | H1, H9           | H4-H6         |
|           | 400             | H1, H8           | H3-H6         |
|           | 380             | H1, H7           | H2-H6         |
|           | 240 (60Hz)      | H1, H10          | H1-H6, H5-H10 |
|           | 220             | H1, H10          | H1-H6, H5-H10 |
|           | 208             | H1, H9           | H1-H6, H5-H10 |
|           | 200             | H1, H8           | H1-H6, H3-H8  |
|           | 190             | H1, H7           | H1-H6, H2-H7  |
|           | Secondary Volts | Connect lines to | Inter-connect |
|           | 240             | X1, X4           | X2-X3         |
|           | 120/240         | X1, X2, X4       | X2-X3         |
|           | 120             | X1, X4           | X2-X4, X1-X3  |

## SCD 33F

| Schematic | Connections     |                  |               |
|-----------|-----------------|------------------|---------------|
|           | Primary Volts   | Connect lines to | Inter-connect |
|           | 380             | H1, H3           | -             |
|           | 347             | H1, H2           | -             |
|           | Secondary Volts | Connect lines to | Inter-connect |
|           | 240             | X1, X4           | X2-X3         |
|           | 120/240         | X1, X2, X4       | X2-X3         |
|           | 120             | X1, X2           | X2-X4, X1-X3  |

## SCD 41F

| Schematic | Connections     |                  |               |
|-----------|-----------------|------------------|---------------|
|           | Primary Volts   | Connect lines to | Inter-connect |
|           | 277             | H1, H5           | -             |
|           | 240             | H1, H4           | -             |
|           | 208             | H1, H3           | -             |
|           | 120             | H1, H2           | -             |
|           | Secondary Volts | Connect lines to | Inter-connect |
|           | 240             | X1, X4           | X2-X3         |
|           | 120/240         | X1, X2, X4       | X2-X3         |
|           | 120             | X1, X2           | X2-X4, X1-X3  |

# ELECTRICAL SCHEMATICS & CONNECTION DRAWINGS

## SCD 42F

| Schematic | Connections     |                  |               |
|-----------|-----------------|------------------|---------------|
|           | Primary Volts   | Connect lines to | Inter-connect |
|           | 480             | H1, H3           | -             |
|           | 277             | H1, H2           | -             |
|           | Secondary Volts | Connect lines to | Inter-connect |
|           | 277             | X1, X3           | -             |
|           | 208             | X1, X2           | -             |

## SCD 43F

| Schematic | Connections     |                  |               |
|-----------|-----------------|------------------|---------------|
|           | Primary Volts   | Connect lines to | Inter-connect |
|           | 480             | H1, H2           | 1-2           |
|           | 277             | H1, H2           | 2-3           |
|           | Secondary Volts | Connect lines to | Inter-connect |
|           | 277             | X1, X2           | X5-X6         |
|           | 208             | X1, X2           | X3-X4         |

## SCD 44F

| Schematic | Connections     |                  |               |
|-----------|-----------------|------------------|---------------|
|           | Primary Volts   | Connect lines to | Inter-connect |
|           | 380             | H1, H2           | 1-2           |
|           | 347             | H1, H2           | 3-4           |
|           | Secondary Volts | Connect lines to | Inter-connect |
|           | 240             | X1, X4           | X2-X3         |
|           | 120/240         | X1, X2, X4       | X2-X3         |
|           | 120             | X1, X2           | X2-X4, X1-X3  |

## SCD 53F

| Schematic | Connections     |                          |            |               |
|-----------|-----------------|--------------------------|------------|---------------|
|           | % Voltage       | Primary Volts            |            | Inter-connect |
|           | 105.0%          | 219                      | 252        | 1             |
|           | 102.5%          | 213                      | 246        | 2             |
|           | <b>100.0%</b>   | <b>208</b>               | <b>240</b> | <b>3</b>      |
|           | 97.5%           | 203                      | 234        | 4             |
|           | 95.0%           | 198                      | 228        | 5             |
|           | 92.5%           | 193                      | 222        | 6             |
|           | 90.0%           | 188                      | 217        | 7             |
|           | Secondary Volts | Connect lines to         |            | Inter-connect |
|           | 240             | H1, H2, H3               |            | -             |
|           | 139             | H1, H0   H2, H0   H3, H0 |            | -             |



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