

## General Purpose

Energy efficient dry-type transformers 600 Volt Class, isolation type, single and three phase, 15 kVA through 500 kVA. Indoor and outdoor models available.

### Accessories and Optional Design Styles

- Electrostatic shield for quality power
- Wall mounting brackets (500 lbs maximum) (Item WB1C)
- Weather Shields (UL Listed/NEMA Type 3R)
- Stainless Steel Enclosures
- Totally enclosed non-ventilated designs (TENV) (Non UL) \*
- Open core and coil designs (UL Recognized)
- Copper Wound designs
- Low temperature designs

### Features

- UL Listed/NEMA Type 3R ventilated outdoor enclosures when used with optional weather shields (order separately)
- UL Class 220°C insulation system, 150°C temperature rise under full load
- Terminal board connections and spacious wiring compartment
- Panel enclosure design reduces labor time. Wiring diagram on inside front cover.



UL  
E25872

- High efficiency for low cost operation
- Compliant to NEMA TP-1 Standards
- Single and three phase availability
- Fast delivery
- 10 year limited warranty

### Certifications and Compliances

-  Listed
- UL 1561

### Selection Tables: Single Phase

#### Group 1: 240 x 480 Volt Primary, 120/240 Secondary, 60 Hz

| kVA  | Catalog Number | Type 3R Weather Shield <sup>1</sup> | Height in (mm) | Width in (mm) | Depth in (mm) | Approx. Ship Weight lbs (kg) | Design Style <sup>2</sup> | Elec Conn <sup>2</sup> | Primary Amps | Secondary Amps |
|------|----------------|-------------------------------------|----------------|---------------|---------------|------------------------------|---------------------------|------------------------|--------------|----------------|
| 15   | ES5H15S        | WS-15                               | 28.00 (711.2)  | 16.00 (406.4) | 16.00 (406.4) | 210.0 (95.25)                | 1                         | 1                      | 62.5/31.3    | 125/62.5       |
| 25   | ES5H25S        | WS-15                               | 28.00 (711.2)  | 16.00 (406.4) | 16.00 (406.4) | 245.0 (111.13)               | 1                         | 1                      | 104/52.1     | 208/104        |
| 37.5 | ES5H37S        | WS-17                               | 31.00 (787.4)  | 18.00 (457.2) | 18.00 (457.2) | 340.0 (154.22)               | 1                         | 1                      | 156/78       | 313/156        |
| 50   | ES5H50S        | WS-17                               | 31.00 (787.4)  | 18.00 (457.2) | 18.00 (457.2) | 415.0 (188.24)               | 1                         | 1                      | 208/104      | 416/208        |
| 75   | ES5H75S        | WS-09                               | 44.00 (1117.6) | 23.00 (584.2) | 21.00 (533.4) | 610.0 (276.69)               | 1                         | 1                      | 313/156      | 625/313        |
| 100  | ES5H100S       | WS-09                               | 44.00 (1117.6) | 23.00 (584.2) | 21.00 (533.4) | 705.0 (319.78)               | 1                         | 1                      | 417/208      | 833/417        |
| 167  | ES5H167S       | WS-16                               | 46.00 (1168.4) | 26.00 (660.4) | 24.00 (609.6) | 980.0 (444.52)               | 1                         | 1                      | 695/348      | 1392/695       |

#### Group 2 – 120/208/240/277 Volt Primary, 120/240 Secondary, 60 Hz

| kVA | Catalog Number | Type 3R Weather Shield <sup>1</sup> | Height in (mm) | Width in (mm) | Depth in (mm) | Approx. Ship Weight lbs (kg) | Design Style <sup>2</sup> | Elec Conn <sup>2</sup> | Primary Amps @ 277 V | Secondary Amps |
|-----|----------------|-------------------------------------|----------------|---------------|---------------|------------------------------|---------------------------|------------------------|----------------------|----------------|
| 15  | ES12H15S       | WS-15                               | 28.00 (711.2)  | 16.00 (406.4) | 16.00 (406.4) | 215.0 (97.52)                | 1                         | 2                      | 54.2                 | 125/62.5       |
| 25  | ES12H25S       | WS-15                               | 28.00 (711.2)  | 16.00 (406.4) | 16.00 (406.4) | 250.0 (113.40)               | 1                         | 2                      | 90.3                 | 208/104        |

Notes:

1. Weather shields (set of two) must be ordered separately.

2. Design Styles and Electrical Connections can be found at the end of the Ventilated Distribution Transformers section.

\* Not all optional designs are  listed. Contact Technical Services.

## Selection Tables: Three Phase

Group A: 480 Volt  $\Delta$  Primary, 208/120 Secondary, 60 Hz

| kVA   | Catalog Number      | Type 3R Weather Shield <sup>1</sup> | Height in (mm) | Width in (mm)  | Depth in (mm) | Approx. Ship Weight lbs (kg) | Design Style <sup>2</sup> | Elec Conn <sup>2</sup> | Primary Amps | Secondary Amps |
|-------|---------------------|-------------------------------------|----------------|----------------|---------------|------------------------------|---------------------------|------------------------|--------------|----------------|
| 15    | ET2H15 <sup>3</sup> | WS-02                               | 23.00(584.2)   | 18.00 (457.2)  | 14.00 (355.6) | 187.0 (84.82)                | 1                         | 5                      | 18.1         | 41.7           |
|       | ET2H15S             |                                     |                |                |               |                              |                           |                        |              |                |
| 30    | ET2H30 <sup>3</sup> | WS-14                               | 28.00 (711.2)  | 23.00 (584.2)  | 16.00 (406.4) | 292.0 (132.45)               | 1                         | 5                      | 36.1         | 83.4           |
|       | ET2H30S             |                                     |                |                |               |                              |                           |                        |              |                |
| 45    | ET2H45 <sup>3</sup> | WS-14                               | 28.00 (711.2)  | 23.00 (584.2)  | 16.00 (406.4) | 376.0 (170.55)               | 1                         | 5                      | 54.2         | 125.0          |
|       | ET2H45S             |                                     |                |                |               |                              |                           |                        |              |                |
| 75    | ET2H75 <sup>3</sup> | WS-30                               | 34.00 (863.6)  | 28.00 (711.2)  | 22.00 (558.8) | 569.0 (258.09)               | 1                         | 5                      | 90.3         | 208.0          |
|       | ET2H75S             |                                     |                |                |               |                              |                           |                        |              |                |
| 112.5 | ET2H112S            | WS-30                               | 34.00 (863.6)  | 28.00 (711.2)  | 22.00 (558.8) | 768.0 (348.36)               | 1                         | 5                      | 135.0        | 313.0          |
| 150   | ET2H150S            | WS-10                               | 44.00 (1117.6) | 33.00 (838.2)  | 21.00 (533.4) | 933.0 (423.20)               | 1                         | 5                      | 181.0        | 417.0          |
| 225   | ET2H225S            | WS-11                               | 46.00 (1168.4) | 36.00 (914.4)  | 24.00 (609.6) | 1342.0 (608.72)              | 1                         | 5                      | 271.0        | 625.0          |
| 300   | ET2H300S            | WS-11                               | 46.00 (1168.4) | 36.00 (914.4)  | 24.00 (609.6) | 1525.0 (691.73)              | 1                         | 5                      | 361.0        | 834.0          |
| 500   | ET2H500S            | WS-12                               | 65.00 (1651.0) | 45.00 (1143.0) | 35.00 (889.0) | 2460.0 (1115.84)             | 1                         | 5                      | 602.0        | 1390.0         |

Group B: 480 Volt  $\Delta$  Primary, 240 Volt  $\Delta$ , Secondary with reduced capacity center tap <sup>4</sup>, 60 Hz

| kVA   | Catalog Number      | Type 3R Weather Shield <sup>1</sup> | Height in (mm) | Width in (mm)  | Depth in (mm) | Approx. Ship Weight lbs (kg) | Design Style <sup>2</sup> | Elec Conn <sup>2</sup> | Primary Amps | Secondary Amps |
|-------|---------------------|-------------------------------------|----------------|----------------|---------------|------------------------------|---------------------------|------------------------|--------------|----------------|
| 15    | ET5H15 <sup>3</sup> | WS-02                               | 23.00 (584.2)  | 19.00 (482.6)  | 14.00 (355.6) | 189.0 (85.73)                | 1                         | 6                      | 18.1         | 36.1           |
|       | ET5H15S             |                                     |                |                |               |                              |                           |                        |              |                |
| 30    | ET5H30 <sup>3</sup> | WS-14                               | 28.00 (711.2)  | 23.00 (584.2)  | 16.00 (406.4) | 292.0 (132.45)               | 1                         | 6                      | 36.1         | 72.3           |
|       | ET5H30S             |                                     |                |                |               |                              |                           |                        |              |                |
| 45    | ET5H45 <sup>3</sup> | WS-14                               | 28.00 (711.2)  | 23.00 (584.2)  | 16.00 (406.4) | 381.0 (172.82)               | 1                         | 6                      | 54.2         | 108.0          |
|       | ET5H45S             |                                     |                |                |               |                              |                           |                        |              |                |
| 75    | ET5H75 <sup>3</sup> | WS-30                               | 34.00 (863.6)  | 28.00 (711.2)  | 22.00 (558.8) | 560.0 (254.01)               | 1                         | 6                      | 90.3         | 181.0          |
|       | ET5H75S             |                                     |                |                |               |                              |                           |                        |              |                |
| 112.5 | ET5H112S            | WS-30                               | 34.00 (863.6)  | 28.00 (711.2)  | 22.00 (558.8) | 760.0 (344.73)               | 1                         | 6                      | 135.0        | 271.0          |
| 150   | ET5H150S            | WS-10                               | 44.00 (1117.6) | 33.00 (838.2)  | 21.00 (533.4) | 940.0 (426.38)               | 1                         | 6                      | 181.0        | 361.0          |
| 225   | ET5H225S            | WS-11                               | 46.00 (1168.4) | 36.00 (914.4)  | 24.00 (609.6) | 1342.0 (608.72)              | 1                         | 6                      | 271.0        | 542.0          |
| 300   | ET5H300S            | WS-11                               | 46.00 (1168.4) | 36.00 (914.4)  | 24.00 (609.6) | 1525.0 (691.73)              | 1                         | 6                      | 361.0        | 723.0          |
| 500   | ET5H500S            | WS-12                               | 65.00 (1651.0) | 45.00 (1143.0) | 35.00 (889.0) | 2460.0 (1115.84)             | 1                         | 6                      | 602.0        | 1204.0         |

## Notes:

1. Weather shields (set of two) must be ordered separately.
2. Design Styles and Electrical Connections can be found at the end of the Ventilated Distribution Transformers section.
3. Unshielded model.
4. Refer to *Capacity of Center Tap in Center Tap Delta Transformers* at the beginning of this section.

## Selection Tables: Three Phase

Group C: 480 Volt  $\Delta$  Primary, 480Y/277 Secondary, 60 Hz

| KVA   | Catalog Number | Type 3R Weather Shield <sup>1</sup> | Height in (mm) | Width in (mm)  | Depth in (mm) | Approx. Ship Weight lbs (kg) | Design Style <sup>2</sup> | Elec Conn <sup>2</sup> | Primary Amps | Secondary Amps |
|-------|----------------|-------------------------------------|----------------|----------------|---------------|------------------------------|---------------------------|------------------------|--------------|----------------|
| 15    | ET81H15S       | WS-02                               | 23.00 (584.2)  | 18.00 (457.2)  | 14.00 (355.6) | 189.0 (85.73)                | 1                         | 8                      | 18.1         | 18.1           |
| 30    | ET81H30S       | WS-14                               | 28.00 (711.2)  | 23.00 (584.2)  | 16.00 (406.4) | 295.0 (133.81)               | 1                         | 8                      | 36.1         | 36.1           |
| 45    | ET81H45S       | WS-14                               | 28.00 (711.2)  | 23.00 (584.2)  | 16.00 (406.4) | 380.0 (172.37)               | 1                         | 8                      | 54.2         | 54.2           |
| 75    | ET81H75S       | WS-30                               | 34.00 (863.6)  | 28.00 (711.2)  | 22.00 (558.8) | 560.0 (254.01)               | 1                         | 8                      | 90.3         | 90.3           |
| 112.5 | ET81H112S      | WS-30                               | 34.00 (863.6)  | 28.00 (711.2)  | 22.00 (558.8) | 780.0 (353.80)               | 1                         | 8                      | 135.0        | 135.0          |
| 150   | ET81H150S      | WS-10                               | 44.00 (1117.6) | 33.00 (838.2)  | 21.00 (533.4) | 933.0 (423.20)               | 1                         | 8                      | 181.0        | 181.0          |
| 225   | ET81H225S      | WS-11                               | 46.00 (1168.4) | 36.00 (914.4)  | 24.00 (609.6) | 1342.0 (608.72)              | 1                         | 8                      | 271.0        | 271.0          |
| 300   | ET81H300S      | WS-11                               | 46.00 (1168.4) | 36.00 (914.4)  | 24.00 (609.6) | 1525.0 (691.73)              | 1                         | 8                      | 361.0        | 361.0          |
| 500   | ET81H500S      | WS-12                               | 65.00 (1651.0) | 45.00 (1143.0) | 35.00 (889.0) | 2460.0 (1115.84)             | 1                         | 8                      | 602.0        | 602.0          |

Group D: 208 Volt  $\Delta$  Primary, 480Y/277 Secondary, 60 Hz

| KVA   | Catalog Number | Type 3R Weather Shield <sup>1</sup> | Height in (mm) | Width in (mm) | Depth in (mm) | Approx. Ship Weight lbs (kg) | Design Style <sup>2</sup> | Elec Conn <sup>2</sup> | Primary Amps | Secondary Amps |
|-------|----------------|-------------------------------------|----------------|---------------|---------------|------------------------------|---------------------------|------------------------|--------------|----------------|
| 15    | ET84H15S       | WS-02                               | 23.00 (584.2)  | 18.00 (457.2) | 14.00 (355.6) | 195.0 (88.45)                | 1                         | 10                     | 41.7         | 18.1           |
| 30    | ET84H30S       | WS-14                               | 28.00 (711.2)  | 23.00 (584.2) | 16.00 (406.4) | 295.0 (133.81)               | 1                         | 10                     | 83.4         | 36.1           |
| 45    | ET84H45S       | WS-14                               | 28.00 (711.2)  | 23.00 (584.2) | 16.00 (406.4) | 375.0 (170.09)               | 1                         | 10                     | 125.0        | 54.2           |
| 75    | ET84H75S       | WS-30                               | 34.00 (863.6)  | 28.00 (711.2) | 22.00 (558.8) | 570.0 (258.55)               | 1                         | 10                     | 208.0        | 90.3           |
| 112.5 | ET84H112S      | WS-30                               | 34.00 (863.6)  | 28.00 (711.2) | 22.00 (558.8) | 780.0 (353.80)               | 1                         | 10                     | 313.0        | 135.0          |
| 150   | ET84H150S      | WS-10                               | 44.00 (1117.6) | 33.00 (838.2) | 21.00 (533.4) | 972.0 (440.89)               | 1                         | 10                     | 417.0        | 181.0          |

## Notes:

1. Weather shields (set of two) must be ordered separately.
2. Design Styles and Electrical Connections can be found at the end of the Ventilated Distribution Transformers section.

## Selection Tables: Three Phase

Group E: 208 Volt  $\Delta$  Primary, 208Y/120 Secondary, 60 Hz

| kVA   | Catalog Number | Type 3R Weather Shield <sup>1</sup> | Height in (mm) | Width in (mm) | Depth in (mm) | Approx. Ship Weight lbs (kg) | Design Style <sup>2</sup> | Elec Conn <sup>2</sup> | Primary Amps | Secondary Amps |
|-------|----------------|-------------------------------------|----------------|---------------|---------------|------------------------------|---------------------------|------------------------|--------------|----------------|
| 15    | ET3H15S        | WS-02                               | 23.00 (584.2)  | 18.00 (457.2) | 14.00 (355.6) | 190.0 (86.18)                | 1                         | 9                      | 41.7         | 41.7           |
| 30    | ET3H30S        | WS-14                               | 28.00 (711.2)  | 23.00 (584.2) | 16.00 (406.4) | 295.0 (133.81)               | 1                         | 9                      | 83.4         | 83.4           |
| 45    | ET3H45S        | WS-14                               | 28.00 (711.2)  | 23.00 (584.2) | 16.00 (406.4) | 380.0 (172.37)               | 1                         | 9                      | 125.0        | 125.0          |
| 75    | ET3H75S        | WS-30                               | 34.00 (863.6)  | 28.00 (711.2) | 22.00 (558.8) | 570.0 (258.55)               | 1                         | 9                      | 208.0        | 208.0          |
| 112.5 | ET3H112S       | WS-30                               | 34.00 (863.6)  | 28.00 (711.2) | 22.00 (558.8) | 805.0 (365.14)               | 1                         | 9                      | 313.0        | 313.0          |
| 150   | ET3H150S       | WS-10                               | 44.00 (1117.6) | 33.00 (838.2) | 21.00 (533.4) | 972.0 (440.89)               | 1                         | 9                      | 416.0        | 416.0          |

Group F: 240 Volt  $\Delta$  Primary, 208Y/120 Secondary, 60 Hz

| kVA   | Catalog Number | Type 3R Weather Shield <sup>1</sup> | Height in (mm) | Width in (mm) | Depth in (mm) | Approx. Ship Weight lbs (kg) | Design Style <sup>2</sup> | Elec Conn <sup>2</sup> | Primary Amps | Secondary Amps |
|-------|----------------|-------------------------------------|----------------|---------------|---------------|------------------------------|---------------------------|------------------------|--------------|----------------|
| 15    | ET6H15S        | WS-02                               | 23.00 (584.2)  | 18.00 (457.2) | 14.00 (355.6) | 190.0 (86.18)                | 1                         | 11                     | 36.1         | 41.7           |
| 30    | ET6H30S        | WS-14                               | 28.00 (711.2)  | 23.00 (584.2) | 16.00 (406.4) | 295.0 (133.81)               | 1                         | 11                     | 72.3         | 83.4           |
| 45    | ET6H45S        | WS-14                               | 28.00 (711.2)  | 23.00 (584.2) | 16.00 (406.4) | 380.0 (172.37)               | 1                         | 11                     | 108.0        | 125.0          |
| 75    | ET6H75S        | WS-30                               | 34.00 (863.6)  | 28.00 (711.2) | 22.00 (558.8) | 570.0 (258.55)               | 1                         | 11                     | 181.0        | 208.0          |
| 112.5 | ET6H112S       | WS-30                               | 34.00 (863.6)  | 28.00 (711.2) | 22.00 (558.8) | 805.0 (365.14)               | 1                         | 11                     | 271.0        | 313.0          |
| 150   | ET6H150S       | WS-10                               | 44.00 (1117.6) | 33.00 (838.2) | 21.00 (533.4) | 972.0 (440.89)               | 1                         | 11                     | 361.0        | 417.0          |

Group G: 240 Volt  $\Delta$  Primary, 480Y/277 Secondary, 60 Hz

| kVA   | Catalog Number | Type 3R Weather Shield <sup>1</sup> | Height in (mm) | Width in (mm) | Depth in (mm) | Approx. Ship Weight lbs (kg) | Design Style <sup>2</sup> | Elec Conn <sup>2</sup> | Primary Amps | Secondary Amps |
|-------|----------------|-------------------------------------|----------------|---------------|---------------|------------------------------|---------------------------|------------------------|--------------|----------------|
| 15    | ET85H15S       | WS-02                               | 23.00 (584.2)  | 18.00 (457.2) | 14.00 (355.6) | 190.0 (86.18)                | 1                         | 12                     | 36.1         | 18.1           |
| 30    | ET85H30S       | WS-14                               | 28.00 (711.2)  | 23.00 (584.2) | 16.00 (406.4) | 295.0 (133.81)               | 1                         | 12                     | 72.3         | 36.1           |
| 45    | ET85H45S       | WS-14                               | 28.00 (711.2)  | 23.00 (584.2) | 16.00 (406.4) | 380.0 (172.37)               | 1                         | 12                     | 108.0        | 54.2           |
| 75    | ET85H75S       | WS-30                               | 34.00 (863.6)  | 28.00 (711.2) | 22.00 (558.8) | 560.0 (254.01)               | 1                         | 12                     | 181.0        | 90.3           |
| 112.5 | ET85H112S      | WS-30                               | 34.00 (863.6)  | 28.00 (711.2) | 22.00 (558.8) | 805.0 (365.14)               | 1                         | 12                     | 271.0        | 135.0          |
| 150   | ET85H150S      | WS-10                               | 44.00 (1117.6) | 33.00 (838.2) | 21.00 (533.4) | 972.0 (440.89)               | 1                         | 12                     | 361.0        | 181.0          |

## Notes:

1. Weather shields (set of two) must be ordered separately.

2. Design Styles and Electrical Connections can be found at the end of the Ventilated Distribution Transformers section.

## Selection Tables: Three Phase

Group J: 480 Volt  $\Delta$  Primary, 380Y/220 Secondary, 60 Hz

| kVA   | Catalog Number | Type 3R Weather Shield <sup>1</sup> | Height in (mm) | Width in (mm) | Depth in (mm) | Approx. Ship Weight lbs (kg) | Design Style <sup>2</sup> | Elec Conn <sup>2</sup> | Primary Amps | Secondary Amps |
|-------|----------------|-------------------------------------|----------------|---------------|---------------|------------------------------|---------------------------|------------------------|--------------|----------------|
| 15    | ET79H15S       | WS-02                               | 23.00 (584.2)  | 18.00 (457.2) | 14.00 (355.6) | 190.0 (86.18)                | 1                         | 7                      | 18.1         | 22.8           |
| 30    | ET79H30S       | WS-14                               | 28.00 (711.2)  | 23.00 (584.2) | 16.00 (406.4) | 295.0 (133.81)               | 1                         | 7                      | 36.1         | 45.6           |
| 45    | ET79H45S       | WS-14                               | 28.00 (711.2)  | 23.00 (584.2) | 16.00 (406.4) | 380.0 (172.37)               | 1                         | 7                      | 54.2         | 68.4           |
| 75    | ET79H75S       | WS-30                               | 34.00 (863.6)  | 28.00 (711.2) | 22.00 (558.8) | 360.0 (163.29)               | 1                         | 7                      | 90.3         | 114.0          |
| 112.5 | ET79H112S      | WS-30                               | 34.00 (863.6)  | 28.00 (711.2) | 22.00 (558.8) | 770.0 (349.27)               | 1                         | 7                      | 135.3        | 170.9          |
| 150   | ET79H150S      | WS-10                               | 44.00 (1117.6) | 33.00 (838.2) | 21.00 (533.4) | 933.0 (423.20)               | 1                         | 7                      | 180.4        | 227.9          |

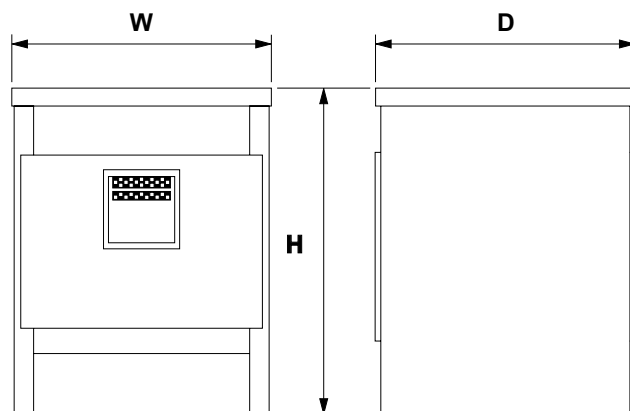
Group K: 480 Volt  $\Delta$  Primary, 208Y/120 Secondary, 60 Hz, Copper-Wound

| kVA   | Catalog Number | Type 3R Weather Shield <sup>1</sup> | Height in (mm) | Width in (mm)  | Depth in (mm) | Approx. Ship Weight lbs (kg) | Design Style <sup>2</sup> | Elec Conn <sup>2</sup> | Primary Amps | Secondary Amps |
|-------|----------------|-------------------------------------|----------------|----------------|---------------|------------------------------|---------------------------|------------------------|--------------|----------------|
| 15    | ET2H15SCU      | WS-02                               | 23.00 (584.2)  | 18.00 (457.2)  | 14.00 (355.6) | 205.0 (92.98)                | 1                         | 5                      | 18.1         | 41.7           |
| 30    | ET2H30SCU      | WS-14                               | 28.00 (711.2)  | 23.00 (584.2)  | 16.00 (406.4) | 305.0 (138.35)               | 1                         | 5                      | 36.1         | 83.4           |
| 45    | ET2H45SCU      | WS-14                               | 28.00 (711.2)  | 23.00 (584.2)  | 16.00 (406.4) | 405.0 (183.70)               | 1                         | 5                      | 54.2         | 125.0          |
| 75    | ET2H75SCU      | WS-30                               | 34.00 (863.6)  | 28.00 (711.2)  | 22.00 (558.8) | 535.0 (242.67)               | 1                         | 5                      | 90.3         | 208.0          |
| 112.5 | ET2H112SCU     | WS-30                               | 34.00 (863.6)  | 28.00 (711.2)  | 22.00 (558.8) | 805.0 (365.14)               | 1                         | 5                      | 135.0        | 313.0          |
| 150   | ET2H150SCU     | WS-10                               | 44.00 (1117.6) | 33.00 (838.2)  | 21.00 (533.4) | 972.0 (440.89)               | 1                         | 5                      | 181.0        | 417.0          |
| 225   | ET2H225SCU     | WS-11                               | 46.00 (1168.4) | 36.00 (914.4)  | 24.00 (609.6) | 1325.0 (601.01)              | 1                         | 5                      | 271.0        | 625.0          |
| 300   | ET2H300SCU     | WS-11                               | 46.00 (1168.4) | 36.00 (914.4)  | 24.00 (609.6) | 1515.0 (687.19)              | 1                         | 5                      | 361.0        | 834.0          |
| 500   | ET2H500SCU     | WS-12                               | 65.00 (1651.0) | 45.00 (1143.0) | 35.00 (889.0) | 2460.0 (1115.84)             | 1                         | 5                      | 602.0        | 1390.0         |

## Notes:

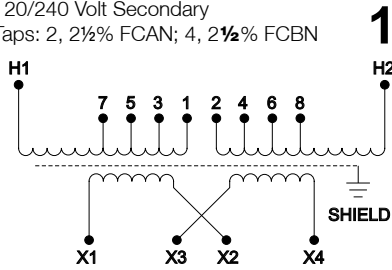
1. Weather shields (set of two) must be ordered separately.
2. Design Styles and Electrical Connections can be found at the end of the Ventilated Distribution Transformers section.

## Design Style

*Style 1 - Ventilated*

## Electrical Connections (Single Phase)

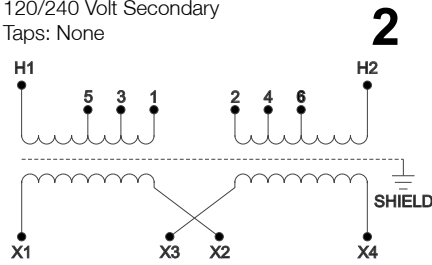
240 x 480 Volt Primary,  
120/240 Volt Secondary  
Taps: 2, 2½% FCAN; 4, 2½% FCBN



| Primary Voltage   | Interconnect                 | Connect Lines To |
|-------------------|------------------------------|------------------|
| 504               | 1 to 2                       | H1 & H2          |
| 492               | 2 to 3                       | H1 & H2          |
| 480               | 3 to 4                       | H1 & H2          |
| 468               | 4 to 5                       | H1 & H2          |
| 456               | 5 to 6                       | H1 & H2          |
| 444               | 6 to 7                       | H1 & H2          |
| 432               | 7 to 8                       | H1 & H2          |
| 252               | H1 to 2 H2 to 1              | H1 & H2          |
| 240               | H1 to 4 H2 to 3              | H1 & H2          |
| 228               | H1 to 6 H2 to 5              | H1 & H2          |
| 216               | H1 to 8 H2 to 7              | H1 & H2          |
| Secondary Voltage | Interconnect                 | Connect Lines To |
| 240               | X2 to X3                     | X1 & X4          |
| 120-0-120         | X2 to X3 X2 to $\frac{1}{2}$ | X1-X2-X4         |
| 120               | X1 to X3 X2 to X4            | X1 & X4          |

**ES5 Series**

120/208/240/277 Volt Primary,  
120/240 Volt Secondary  
Taps: None

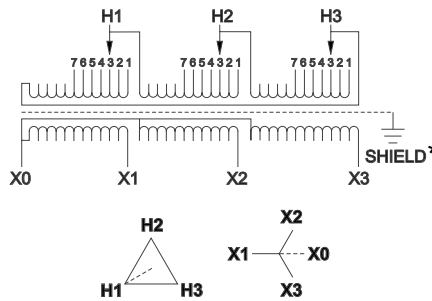


| Primary Voltage   | Interconnect                 | Connect Lines To |
|-------------------|------------------------------|------------------|
| 277               | 1 to 2                       | H1 & H2          |
| 240               | 3 to 4                       | H1 & H2          |
| 208               | 5 to 6                       | H1 & H2          |
| 120               | H1 to 4 H2 to 3              | H1 & H2          |
| Secondary Voltage | Interconnect                 | Connect Lines To |
| 240               | X2 to X3                     | X1 & X4          |
| 120-0-120         | X2 to X3 X2 to $\frac{1}{2}$ | X1-X2-X4         |
| 120               | X1 to X3 X2 to X4            | X1 & X4          |

**ES12 Series**

## Electrical Connections (Three Phase)

480 Δ Volt Primary,  
208Y/120 Volt Secondary  
Taps: 2, 2½% FCAN; 4, 2½% FCBN

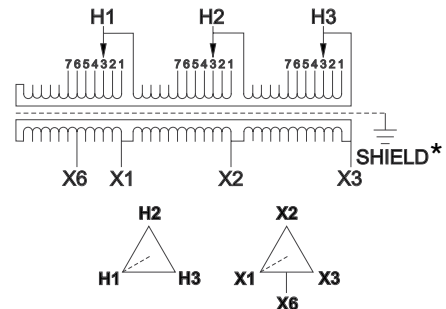


| Primary H1-H2-H3 |         | Secondary Voltage |                |
|------------------|---------|-------------------|----------------|
| @ Tap            | Voltage | X1, X2, X3        | X0- X1, X2, X3 |
| 1                | 504     | 208               | 120            |
| 2                | 492     |                   |                |
| 3                | 480     |                   |                |
| 4                | 468     |                   |                |
| 5                | 456     |                   |                |
| 6                | 444     |                   |                |
| 7                | 432     |                   |                |

**ET2 and 3H Series**

\* Shield available in electrostatically shielded units only.

480 Δ Volt Primary,  
240 Δ W/120 CT Volt Secondary  
Taps: 2, 2½% FCAN; 4, 2½% FCBN



| Primary H1-H2-H3 |         | Secondary Voltage |              |
|------------------|---------|-------------------|--------------|
| @ Tap            | Voltage | X1, X2, X3        | X6-X1, X6-X3 |
| 1                | 504     | 240               | 120          |
| 2                | 492     |                   |              |
| 3                | 480     |                   |              |
| 4                | 468     |                   |              |
| 5                | 456     |                   |              |
| 6                | 444     |                   |              |
| 7                | 432     |                   |              |

**ET5 Series**

\* Shield available in electrostatically shielded units only.

### Electrical Connections (Three Phase) cont.

