

## 15 to 2,500 kVA

### Applications

- For general loads, including lighting, industrial and commercial applications

### Specifications

- Meets DOE-2016 and C802 standards for energy efficiency
- 60 Hz operation
- Aluminum windings
- 150°C temperature rise
- 220°C insulation class standard
- NEMA3R rated enclosures standard
- Heat-cured ASA-61 gray powder coat finish
- Cores of high quality electrical steel
- Primary taps
- Lugs provided for units up to and including 75 kVA on catalog items

### Features, Functions, Benefits

- Large connection compartment for ease of wiring and installation
- Many sizes in stock and available for immediate shipment
- Quiet operation for installation flexibility
- Seismic certification for all units



### Standards

- Meets DOE-2016 standard Part 431, Subpart K for energy efficiency
- Built in accordance with NEMA, ANSI, UL and CSA standards

### Options and Accessories

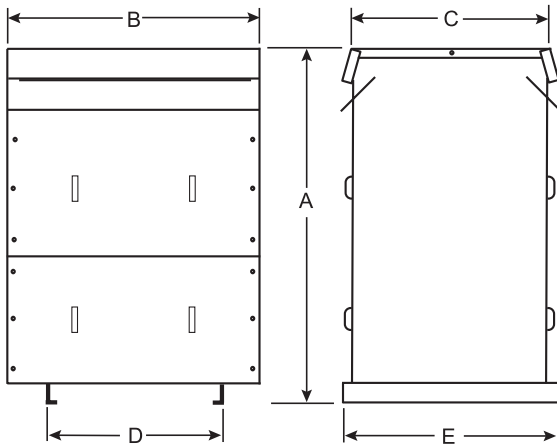
- Other sizes, voltages and temperature rises available
- Copper windings
- CE Marked units available as custom
- Wall brackets available for units up to 75 kVA

### Approvals

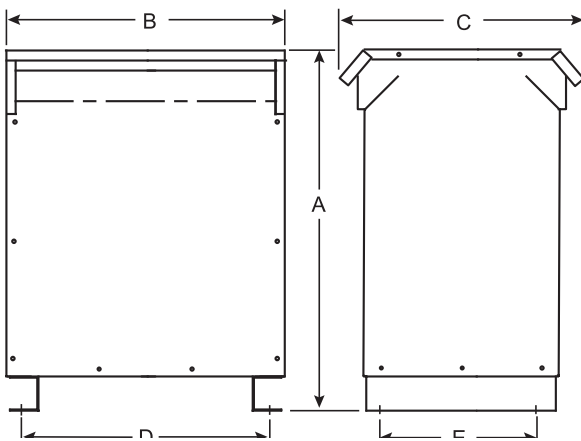


**Enclosure Figures**

**Figure 22**



**Figure 24**



**Model Numbers Defined**

**423-TXXY-ABC**

Three-Phase, Ventilated

Type

- C802 compliant 2
- DOE compliant 9

kVA Rating / XX      kVA Rating / XX

- 15    16      250    30
- 20    17      300    31
- 25    18      333    32
- 30    19      400    33
- 37.5   20      500    34
- 45    21      667    35
- 50    22      750    36
- 75    23      833    37
- 100   24      1,000   39
- 112.5   25      1,250   43
- 150   26      1,500   47
- 167   27      2,000   51
- 200   28      2,500   53
- 225   29

Primary      Secondary

- 208      480Y/277      1
- 240      208Y/120      2
- 240      480Y/277      3
- 480      208Y/120      4
- 480      480Y/277      5
- Specials\*      6
- 480      240 w/ 120 CT      7
- 208      208Y/120      8
- 600      208Y/120      9

Wiring

- Aluminum 0
- Copper 8

Temperature Rise

- 150°C Rise 0
- 115°C Rise 1
- 80°C Rise 8

Shields

- No shield 0
- Shield 5

\*Suffix defined incrementally

**Wall Mounting Bracket Kits**

Part Number	Description	Max Unit Wgt (lbs)
223-7008-030	For 15 kVA units, 150°C rise	250
223-7008-075	For 16 to 75 kVA units, 150°C rise	750

**Wall Mounting Bracket Kits with Drip Pans**

400-4701-226	For Three Phase units, 19" width	750
400-4701-227	For Three Phase units, 22" width	750
400-4701-228	For Three Phase units, 25" width	750
400-4701-229	For Three Phase units, 27" width	750

**Lugs**

Part Number	kVA	Primary Lug	Qty	Secondary Lug	Qty
4PT-2007-LUG	15	#14 - 2	2	#2/0 - 6	2
4PT-2017-LUG	25	#14 - 2	2	250MCM - 6	2
4PT-2008-LUG	37.5	#14 - 2	2	350MCM - 6	2
4PT-2009-LUG	50	#2/0 - 6	2	600MCM - 6	2
4PT-2018-LUG*	75	#2/0 - 6	2	600MCM - 6	4

\* Must be ordered, not included on stock units

**Three-Phase General Purpose Transformers – DOE compliant**

150°C Temperature Rise • Aluminum Windings • NEMA3R Enclosures

Taps: 15 to 300 kVA: 2 @ 2.5% FCAN & 4 @ 2.5% FCBN • 500 to 1,000 kVA: 2 @ 2.5% FCAN & 2 @ 2.5% FCBN

480V Delta — 208Y/120V										
kVA	Catalog Number	Enclosure Figure	Height (A) inches	Width (B) inches	Depth (C) inches	(D) inches	(E) inches	Est Ship Wgt (lbs)	Wiring Diagram	Wall Mounting Bracket Kit
15	423-9164-000	24	22	19	21	15.8	12	215	T480E	223-7008-030
30	423-9194-000	24	25	22	22	18.1	13	330	T480E	223-7008-075
45	423-9214-000	24	28	25	23.5	19.5	14.5	415	T480E	223-7008-075
75	423-9234-000	24	32	27	26	23.5	16	585	T480E	223-7008-075
112.5	423-9254-000	24	38	29	29	25.5	18	785	T480E	n/a
150	423-9264-000	24	42	33	32.5	30.0	21	1,035	T480E	n/a
225	423-9294-000	24	46	35	37	30.8	25	1,430	T480E	n/a
300	423-9314-000	24	52	35	37	30.8	25	1,755	T480E	n/a
500	423-9344-000	24	60	48	43.5	42.0	27	2,760	T480M	n/a
750	423-9364-000	22	72	52	44	34.0	42	4,150	T480M	n/a
1,000	423-9394-000	22	81	66	61	60.5	38.5	6,000	T480M	n/a

480V Delta — 240V Delta / 5% 120V CT										
15	423-9167-000 *	24	22	19	21	15.8	12	215	T480G	223-7008-030
30	423-9197-000 *	24	25	22	22	18.1	13	335	T480G	223-7008-075
45	423-9217-000 *	24	28	25	23.5	19.5	14.5	415	T480G	223-7008-075
75	423-9237-000 *	24	32	27	26	23.5	16	585	T480G	223-7008-075
112.5	423-9257-000 *	24	38	29	29	25.5	18	785	T480G	n/a
150	423-9267-000 *	24	42	33	32.5	30.0	21	1,035	T480G	n/a
225	423-9297-000 *	24	46	35	37	30.8	25	1,430	T480G	n/a
300	423-9317-000 *	24	52	35	37	30.8	25	1,755	T480G	n/a
500	423-9347-000 *	24	60	48	43.5	42.0	27	2,760	T480N	n/a
750	423-9367-000 *	22	72	52	44	34.0	42	4,150	T480N	n/a
1,000	423-9397-000 *	22	81	66	61	60.5	38.5	6,000	T480N	n/a

150°C Temperature Rise • Aluminum Windings • NEMA3R Enclosures

Taps: 2 @ 2.5% FCAN & 2 @ 2.5% FCBN

600V Delta — 208Y/120V										
15	423-9169-000	24	22	19	21	15.8	12	215	T600G	223-7008-030
30	423-9199-000	24	25	22	22	18.1	13	335	T600G	223-7008-075
45	423-9219-000	24	28	25	23.5	19.5	14.5	415	T600G	223-7008-075
75	423-9239-000	24	32	27	26	23.5	16	585	T600G	223-7008-075
112.5	423-9259-000	24	38	29	29	25.5	18	785	T600G	n/a
150	423-9269-000	24	42	33	32.5	30.0	21	1,035	T600G	n/a
225	423-9299-000	24	46	35	37	30.8	25	1,430	T600G	n/a
300	423-9319-000	24	52	35	37	30.8	25	1,755	T600G	n/a
500	423-9349-000	24	60	48	43.5	42.0	27	2,760	T600G	n/a
750	423-9369-000	22	72	52	44	34.0	42	4,150	T600G	n/a
1,000	423-9399-000	22	81	66	61	60.5	38.5	6,000	T600G	n/a

See website for additional kVA, copper windings and temperature options.

Housing dimensions subject to change without notice. Consult website or factory where dimensions are critical.

Use the "Find a Product" tool for detailed specification sheets.

For further information, contact an Application Engineer at 800-892-3755, technical\_services@jeffersonelectric.com

\* **CAUTION:** When using the 120V center tap for single-phase applications, the single-phase load should not exceed 5% of the three-phase kVA rating. Connect the X3 "high leg" to the "B" phase per NEC 384-3 (do not use X3 leg for 120V lighting). A separate single-phase transformer should be used if the single-phase load is in excess of 5%. Fuse input side per current NEC requirements.



## 2-4 Three-Phase Ventilated

### Three-Phase General Purpose Transformers – C802 Compliant

150°C Temperature Rise • Aluminum Windings • NEMA3R Enclosures

Taps: 15 to 300 kVA: 2 @ 2.5% FCAN & 4 @ 2.5% FCBN • 500 to 1,000 kVA: 2 @ 2.5% FCAN & 2 @ 2.5% FCBN

#### 480V Delta — 208/120Y

kVA	Catalog Number	Enclosure Figure	Height (A) inches	Width (B) inches	Depth (C) inches	(D) inches	(E) inches	Est Ship Wgt (lbs)	Wiring Diagram	Wall Mounting Bracket Kit
15	423-2164-000	24	22	19	21	15.8	12	215	T480E	223-7008-030
30	423-2194-000	24	25	22	22	18.1	13	330	T480E	223-7008-075
45	423-2214-000	24	28	25	23.5	19.5	14.5	415	T480E	223-7008-075
75	423-2234-000	24	32	27	26	23.5	16	585	T480E	223-7008-075
112.5	423-2254-000	24	38	29	29	25.5	18	785	T480E	n/a
150	423-2264-000	24	42	33	32.5	30.0	21	1,035	T480E	n/a
225	423-2294-000	24	46	35	37	30.8	25	1,430	T480E	n/a
300	423-2314-000	24	52	35	37	30.8	25	1,755	T480E	n/a
500	423-2344-000	24	60	48	43.5	42.0	27	2,460	T480M	n/a
750	423-2364-000	22	72	52	44	34.0	42	4,055	T480M	n/a
1,000	423-2394-000	22	81	66	61	60.5	38.5	5,500	T480M	n/a

#### 480V Delta — 240V Delta / 5% 120V CT

15	423-2167-000 *	24	22	19	21	15.8	12	215	T480G	223-7008-030
30	423-2197-000 *	24	25	22	22	18.1	13	335	T480G	223-7008-075
45	423-2217-000 *	24	28	25	23.5	19.5	14.5	415	T480G	223-7008-075
75	423-2237-000 *	24	32	27	26	23.5	16	585	T480G	223-7008-075
112.5	423-2257-000 *	24	38	29	29	25.5	18	785	T480G	n/a
150	423-2267-000 *	24	42	33	32.5	30.0	21	1,035	T480G	n/a
225	423-2297-000 *	24	46	35	37	30.8	25	1,430	T480G	n/a
300	423-2317-000 *	24	52	35	37	30.8	25	1,755	T480G	n/a
500	423-2347-000 *	24	60	48	43.5	42.0	27	2,460	T480G	n/a
750	423-2367-000 *	22	72	52	44	34.0	42	4,055	T480N	n/a
1,000	423-2397-000 *	22	81	66	61	60.5	38.5	5,500	T480N	n/a

150°C Temperature Rise • Aluminum Windings • NEMA3R Enclosures

Taps: 2 @ 2.5% FCAN & 2 @ 2.5% FCBN

#### 600V Delta — 208Y/120V

15	423-2169-000	24	22	19	21	15.8	12	215	T600G	223-7008-030
30	423-2199-000	24	25	22	22	18.1	13	335	T600G	223-7008-075
45	423-2219-000	24	28	25	23.5	19.5	14.5	415	T600G	223-7008-075
75	423-2239-000	24	32	27	26	23.5	16	585	T600G	223-7008-075
112.5	423-2259-000	24	38	29	29	25.5	18	785	T600G	n/a
150	423-2269-000	24	42	33	32.5	30.0	21	1,035	T600G	n/a
225	423-2299-000	24	46	35	37	30.8	25	1,430	T600G	n/a
300	423-2319-000	24	52	35	37	30.8	25	1,755	T600G	n/a
500	423-2349-000	24	60	48	43.5	42.0	27	2,460	T600G	n/a
750	423-2369-000	22	72	52	44	34.0	42	4,055	T600G	n/a
1,000	423-2399-000	22	81	66	61	60.5	38.5	5,500	T600G	n/a

See website for additional kVA, copper windings and temperature options.

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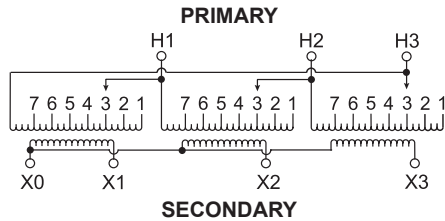
\* **CAUTION:** When using the 120V center tap for single-phase applications, the single-phase load should not exceed 5% of the three-phase kVA rating. Connect the X3 "high leg" to the "B" phase per NEC 384-3 (do not use X3 leg for 120V lighting). A separate single-phase transformer should be used if the single-phase load is in excess of 5%. Fuse input side per current NEC requirements.

## Wiring Diagrams

### T480E Wiring Diagram & Connections

#### Wiring Diagram

Primary: 480 Volts Delta  
Secondary: 208Y/120 Volts



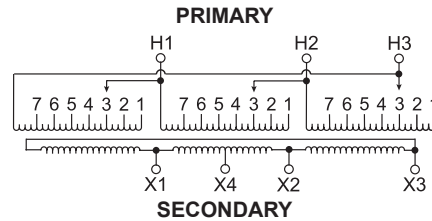
#### Connections

Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
504	1	H1, H2, H3
492	2	H1, H2, H3
480	3	H1, H2, H3
468	4	H1, H2, H3
456	5	H1, H2, H3
444	6	H1, H2, H3
432	7	H1, H2, H3
Secondary Volts	Secondary Lines Connect To	
208	X1, X2, X3	
120	Between X0 and X1 or X2 or X3	
1 phase		

### T480G Wiring Diagram & Connections

#### Wiring Diagram

Primary: 480 Volts Delta  
Secondary: 240 Volts Delta/120 Volts



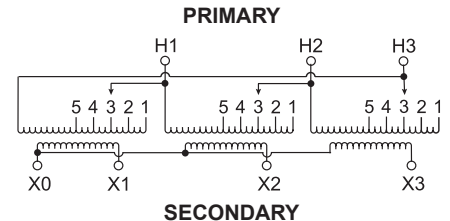
#### Connections

Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
504	1	H1, H2, H3
492	2	H1, H2, H3
480	3	H1, H2, H3
468	4	H1, H2, H3
456	5	H1, H2, H3
444	6	H1, H2, H3
432	7	H1, H2, H3
Secondary Volts	Secondary Lines Connect To	
240	X1, X2, X3	
120	X1 and X4 or X2 or X4	
1 phase		

### T480M Wiring Diagram & Connections

#### Wiring Diagram

Primary: 480 Volts Delta  
Secondary: 208Y/120 Volts



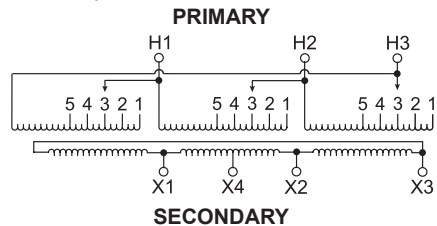
#### Connections

Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
504	1	H1, H2, H3
492	2	H1, H2, H3
480	3	H1, H2, H3
468	4	H1, H2, H3
456	5	H1, H2, H3
Secondary Volts	Secondary Lines Connect To	
208	X1, X2, X3	
120	Between X0 and X1 or X2 or X3	
1 phase		

### T480N Wiring Diagram & Connections

#### Wiring Diagram

Primary: 480 Volts Delta  
Secondary: 240 Volts Delta/120 Volts



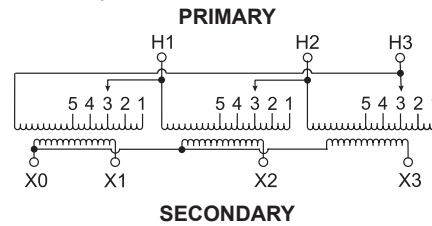
#### Connections

Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
504	1	H1, H2, H3
492	2	H1, H2, H3
480	3	H1, H2, H3
468	4	H1, H2, H3
456	5	H1, H2, H3
Secondary Volts	Secondary Lines Connect To	
240	X1, X2, X3	
120	X1 and X4 or X2 or X4	
1 phase		

### T600G Wiring Diagram & Connections

#### Wiring Diagram

Primary: 600 Volts Delta  
Secondary: 208Y/120 Volts



#### Connections

Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
630	1	H1, H2, H3
615	2	H1, H2, H3
600	3	H1, H2, H3
585	4	H1, H2, H3
570	5	H1, H2, H3
Secondary Volts	Secondary Lines Connect To	
208	X1, X2, X3	
120	Between X0 and X1 or X2 or X3	
1 phase		

More wiring diagrams can be found in catalog's appendix, section 15. Use the "Find a Product" tool on our website for detailed specification sheets. For further information, contact an Application Engineer at 800-892-3755, [technical\\_services@jeffersonelectric.com](mailto:technical_services@jeffersonelectric.com)

