

3 to 75 kVA

Applications

- For general loads, indoors or out, including lighting, industrial and commercial applications

Specifications

- NEMA3R-rated enclosures
- 60 Hz operation
- Aluminum windings
- 135°C temperature rise for 3 to 75 kVA
- Encapsulated with electrical grade resin
- Heat-cured ASA-61 gray powder coat finish
- Cores of high quality electrical steel
- Primary taps

Features, Functions, Benefits

- Large connection compartment with knockouts for ease of wiring and installation
- Slotted mounting holes for quick and easy mounting
- Convenient wall mount design with lifting hooks up to 15 kVA
- Many sizes in stock and available for immediate shipment
- Quiet operation for installation flexibility
- Seismic qualification certification for all units



Standards

- Built in accordance with NEMA, ANSI, UL and CSA standards

Options and Accessories

- 50/60 Hz optional
- Other sizes, voltages and temperature rises available
- Copper windings
- CE Marked units available as custom
- Class I Div 2 units available

Approvals



Enclosure Figures

Figure 4

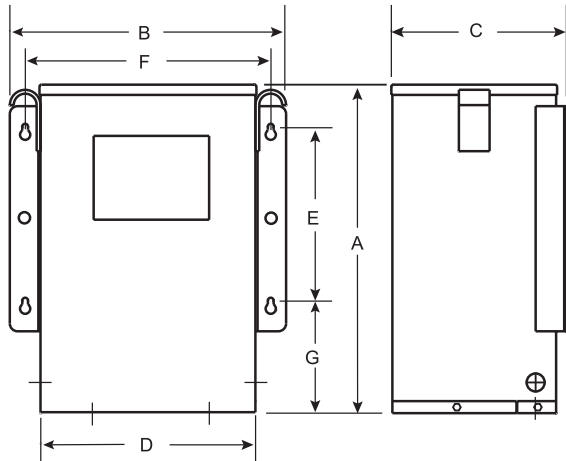
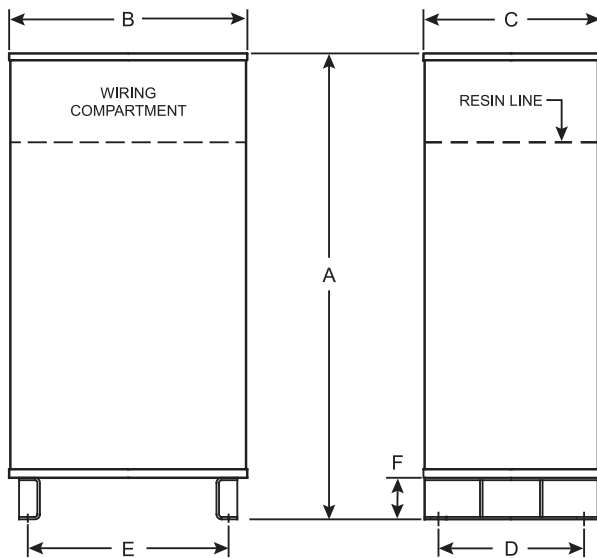


Figure 21



Model Numbers Defined

413-TXXY-ABC

Three-Phase, Encapsulated			
Standard	413		
50/60 Hz	513		
Type			
Standard	1		
Updated style	3		
Class I, Div 2	2		
kVA Rating / XX		kVA Rating / XX	
3.0	10	20	17
5.0	11	25	18
6.0	12	30	19
7.5	13	37.5	20
9.0	14	45	21
10.0	15	50	22
15.0	16	75	23
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 Delta	7	
480	240 Delta	8	
600	208Y/120	9	
Reserved for special items		0	
Wiring			
Default	0		
Copper	8		
Temperature Rise			
135°C Rise	0		
115°C Rise	1		
70°C Rise	7		
80°C Rise	8		
95°C Rise	9		
Shields			
No shield	0		
Shield	5		

* Suffix defined incrementally

Three-Phase Encapsulated General Purpose Transformers

135°C Temperature Rise with 25° Ambient • NEMA3R Enclosures • Taps: 2 @ 5% FCBN

480V — 208Y/120V											
kVA	Catalog Number	Enclosure Figure	Height (A) inches	Width (B) inches	Depth (C) inches	(D) inches	(E) inches	(F) inches	(G) inches	Est Ship Wgt	Wiring Diagram
3	413-1104-000	4	13.1	15.1	8.1	12.3	5.3	5.5	13.6	82	T480A
6	413-1124-000	4	13.1	15.1	8.1	12.3	5.3	5.5	13.6	119	T480A
9	413-1144-000	4	15.1	19	9.1	16.1	8.3	5.1	17.5	157	T480A
15	413-1164-000	4	15.1	19	9.1	16.1	8.3	5.1	17.5	228	T480A
30	413-3194-000	21	33	23	9.5	7	20.5	3		875	T480A
45	413-3214-000	21	36	25	11	8.5	21.75	3		980	T480A
75	413-3234-000	21	37	25	12.5	10.5	22.5	3		1100	T480A
480V — 240V											
3	413-1107-000	4	13.1	15.1	8.1	12.3	5.3	5.5	13.6	82	T480B
6	413-1127-000	4	13.1	15.1	8.1	12.3	5.3	5.5	13.6	119	T480B
9	413-1147-000	4	15.1	19	9.1	16.1	8.3	5.1	17.5	157	T480B
15	413-1167-000	4	15.1	19	9.1	16.1	8.3	5.1	17.5	228	T480B
30	413-1197-000	21	33	23	9.5	7	20.5	3		875	T480B
45	413-1217-000	21	36	25	11	8.5	21.75	3		980	T480B
75	413-1237-000	21	37	25	12.5	10.5	22.5	3		1100	T480B
600V — 208Y/120V											
3	413-1109-000	4	13.1	15.1	8.1	12.3	5.3	5.5	13.6	82	T600A
6	413-1129-000	4	13.1	15.1	8.1	12.3	5.3	5.5	13.6	119	T600A
9	413-1149-000	4	15.1	19	9.1	16.1	8.3	5.1	17.5	157	T600A
15	413-1169-000	4	15.1	19	9.1	16.1	8.3	5.1	17.5	228	T600A
30	413-1199-000	21	33	23	9.5	7	20.5	3		875	T600A
45	413-1219-000	21	36	25	11	8.5	21.75	3		980	T600A
75	413-1239-000	21	37	25	12.5	10.5	22.5	3		1100	T600A
600V — 480Y/277V											
3	413-110B-000	4	13.1	15.1	8.1	12.3	5.3	5.5	13.6	82	T600H
6	413-112B-000	4	13.1	15.1	8.1	12.3	5.3	5.5	13.6	119	T600H
9	413-114B-000	4	15.1	19	9.1	16.1	8.3	5.1	17.5	157	T600H
15	413-116B-000	4	15.1	19	9.1	16.1	8.3	5.1	17.5	228	T600H
30	413-119B-000	21	33	23	9.5	7	20.5	3		875	T600H
45	413-121B-000	21	36	25	11	8.5	21.75	3		980	T600H
75	413-123B-000	21	37	25	12.5	10.5	22.5	3		1100	T600H

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

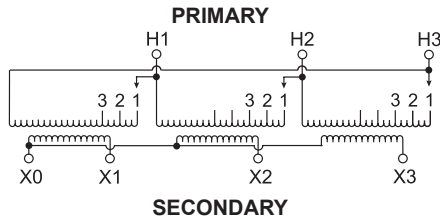


Enclosure Figures

T480A Wiring Diagram & Connections

Wiring Diagram

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



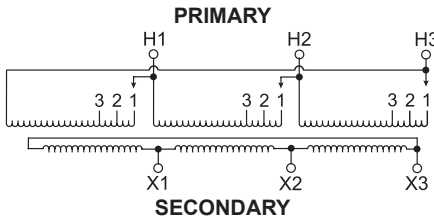
Connections

Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
480	1	H1, H2, H3
456	2	H1, H2, H3
432	3	H1, H2, H3
Secondary Volts	Secondary Lines Connect To	
208	X1, X2, X3	
120	Between X0 and X1 or X2 or X3	
1 Phase		

T480B Wiring Diagram & Connections

Wiring Diagram

Primary: 480 Volts Delta
Secondary: 240 Volts Delta



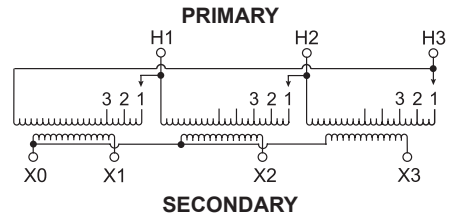
Connections

Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
480	1	H1, H2, H3
456	2	H1, H2, H3
432	3	H1, H2, H3
Secondary Volts	Secondary Lines Connect To	
240	X1, X2, X3	

T600A Wiring Diagram & Connections

Wiring Diagram

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



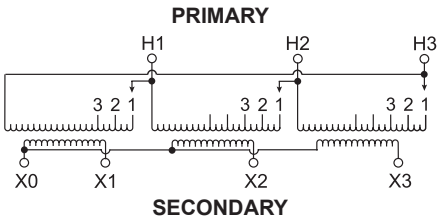
Connections

Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
600	1	H1, H2, H3
570	2	H1, H2, H3
540	3	H1, H2, H3
Secondary Volts	Secondary Lines Connect To	
208	X1, X2, X3	
120	Between X0 and X1 or X2 or X3	
1 phase		

T600H Wiring Diagram & Connections

Wiring Diagram

Primary: 600 Volts Delta
Secondary: 480Y/277 Volts



Connections

Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
600	1	H1, H2, H3
570	2	H1, H2, H3
540	3	H1, H2, H3
Secondary Volts	Secondary Lines Connect To	
480	X1, X2, X3	
277	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