

Jefferson Electric Class I Division 2 Transformers for hazardous locations

Jefferson Electric offers a full line of Class I Division 2 transformers. Jefferson Electric's Class I Division 2 transformers are for environments where normally confined volatile and flammable liquids and gases are used but may be present due to accidental rupture or breakdown of their systems. Class I Division 2 units are key in hazardous locations in maintaining a safe environment.

Each unit is manufactured to ensure safety and reliability. All units are encapsulated NEMA 3R and ABS approved with the option for a 316 grade stainless steel enclosure that meets the corrosion resistance requirements.

Applications Include:

- Petroleum refineries
- Chemical factories
- Gasoline storage and dispensing areas
- Utility gas plants
- Spray finishing areas
- Aircraft hangers
- Offshore Drilling & Production

*General Specifications:

- Class I Division 2
- Groups A,B,C & D
- ABS - Approved
- T3C - Temp Classification
- Enclosures - NEMA 3R
- Single Phase, 1-25 KVA
- Three Phase, 3-75 KVA
- Windings - Aluminum standard
- Indoor and Outdoor use
- 60 Hz standard, 50 Hz optional
- Electrostatic Shields optional
- Standard Wall-mount up to 25 KVA
- Temperature Rise - 115°C @ 40°C ambient standard
- Heat cured powder coat finish enclosures standard
- UL listed



For more information on Jefferson Electric's Class I Division 2 Transformers, please contact your local sales rep or call us directly at (800) 892-3755

Class I Div 2 - Single Phase

1 - 25KVA, Temperature Rise - 115°C @ 40°C ambient standard

KVA	Catalog Number	Fig.	Height (A)	Width (B)	Depth (C)	Wiring Diagram	Est. Ship Wgt. (lbs)
120 X 240 V - 120/240 V 60Hz • Taps None							
1	411-2071-060	2	10.19	5.06	4.59	S240A	19
2	411-2091-060	3	12.50	6.69	5.34		41
3	411-2101-060	3	14.56	7.56	7.15		68
5	411-2111-060	3	14.56	7.56	7.15		93
7.5	411-2131-060	4	16.12	13.50	8.55		130
10	411-2151-060	4	16.12	13.50	8.55		155
15	411-2161-060	4	21.12	16.50	10.06		255
25	411-2181-060	4	21.12	16.50	10.06		291
208 V - 120/240 V 60Hz • Taps None							
1	411-2072-060	2	10.19	5.06	4.59	S208A	19
2	411-2092-060	3	12.50	6.69	5.34		41
3	411-2102-060	3	14.56	7.56	7.15		68
5	411-2112-060	3	14.56	7.56	7.15		93
7.5	411-2132-060	4	16.12	13.50	8.55		130
10	411-2152-060	4	16.12	13.50	8.55		155
15	411-2162-060	4	21.12	16.50	10.06		255
25	411-2182-060	4	21.12	16.50	10.06		291
240 X 480 V - 120/240 V 60Hz • Taps None							
1	411-2073-060	2	10.19	5.06	4.59	S480A	19
2	411-2093-060	3	12.50	6.69	5.34		41
3	411-2103-060	3	14.56	7.56	7.15		68
5	411-2113-060	3	14.56	7.56	7.15		93
7.5	411-2133-060	4	16.12	13.50	8.55		130
10	411-2153-060	4	16.12	13.50	8.55		155
15	411-2163-060	4	21.12	16.50	10.06		255
25	411-2183-060	4	21.12	16.50	10.06		291



Class I Div 2 - Single Phase

1 - 25KVA, Temperature Rise - 115°C @ 40°C ambient standard

KVA	Catalog Number	Fig.	Height (A)	Width (B)	Depth (C)	Wiring Diagram	Est. Ship Wgt. (lbs)
240 X 480 V - 120/240 V 60Hz • Taps: 2 - 2.5% FCAN + 2 - 2.5% FCBN							
3	411-2103-062	3	14.56	7.56	7.15	S480B	68
5	411-2113-062	3	14.56	7.56	7.15		93
7.5	411-2133-062	4	16.12	13.50	8.55		130
10	411-2153-062	4	16.12	13.50	8.55		155
15	411-2163-062	4	21.12	16.50	10.06		255
25	411-2183-062	4	21.12	16.50	10.06		291
277 V - 120/240 V 60Hz • Taps: 2 - 2.5% FCBN							
1	411-2074-061	2	10.19	5.06	4.59	S277A	19
2	411-2094-061	3	12.50	6.69	5.34		41
3	411-2104-061	3	14.56	7.56	7.15		68
5	411-2114-061	3	14.56	7.56	7.15		93
7.5	411-2134-061	4	16.12	13.50	8.55		130
10	411-2154-061	4	16.12	13.50	8.55		155
15	411-2164-061	4	21.12	16.50	10.06		255
25	411-2184-061	4	21.12	16.50	10.06		291
600 V - 120/240 V 60Hz • Taps: 4 - 2.5% FCBN							
1*	411-2075-063	2	10.19	5.06	4.59	S600B	19
2	411-2095-063	3	12.50	6.69	5.34		41
3	411-2105-063	3	14.56	7.56	7.15		68
5	411-2115-063	3	14.56	7.56	7.15		93
7.5	411-2135-063	4	16.12	13.50	8.55		130
10	411-2155-063	4	16.12	13.50	8.55		155
15	411-2165-063	4	21.12	16.50	10.06		255
25	411-2185-063	4	21.12	16.50	10.06		291

* Has no Taps



Figure 2

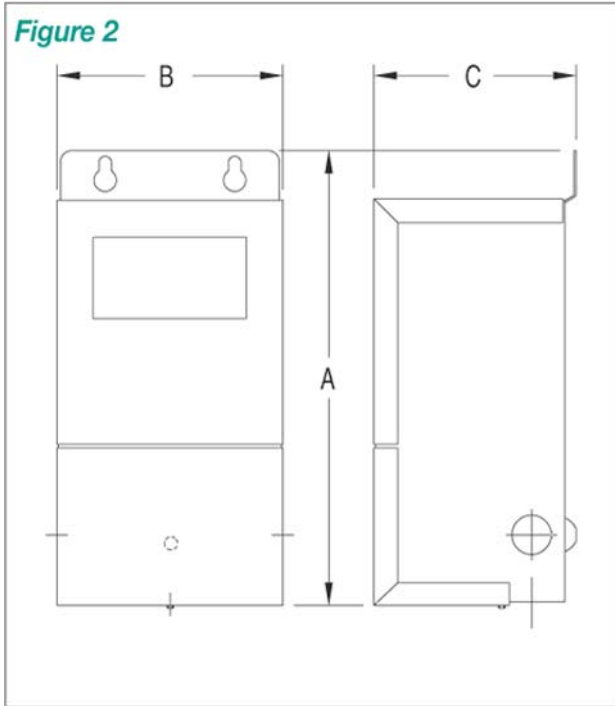


Figure 3

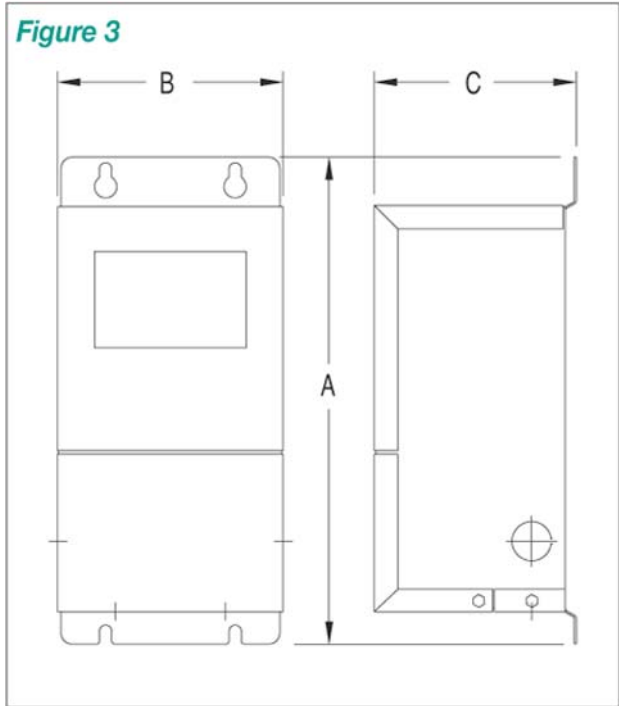
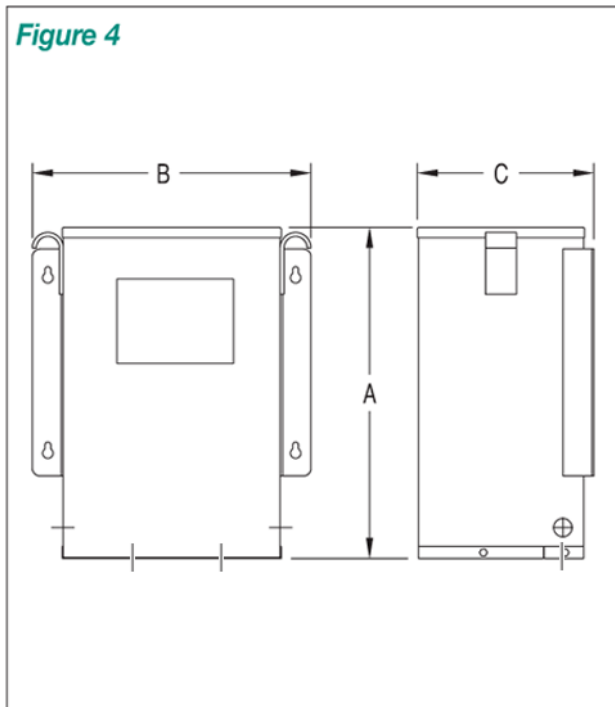
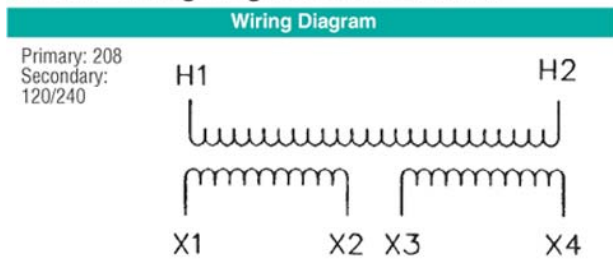


Figure 4



Class I Div 2 Wiring Diagrams

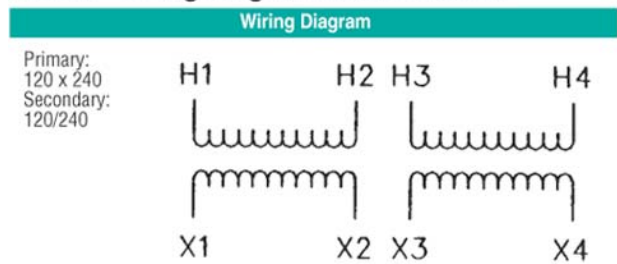
S208A Wiring Diagram & Connections*



Connections

Primary Volts	Interconnect	Primary Lines Connect To	Secondary Lines Connect To
208		H1-H2	X1-X4
240	X2 to X3		X1-X4
120/240	X2 to X3		X1-X2-X4
120	X1 to X3 X2 to X4		X1-X4

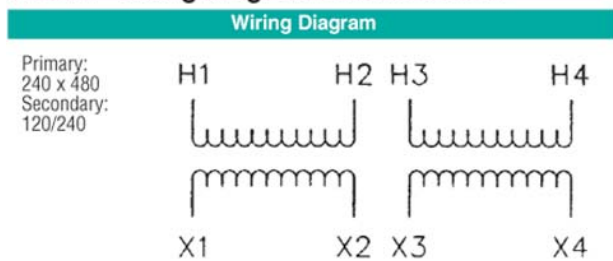
S240A Wiring Diagram & Connections*



Connections

Primary Volts	Interconnect	Primary Lines Connect To	Secondary Lines Connect To
240	H2 to H3	H1-H4	X1-X4
120	H1 to H3 H2 to H4	H1-H4	X1-X4
240	X2 to X3		X1-X4
120/240	X2 to X3		X1-X2-X4
120	X1 to X3 X2 to X4		X1-X4

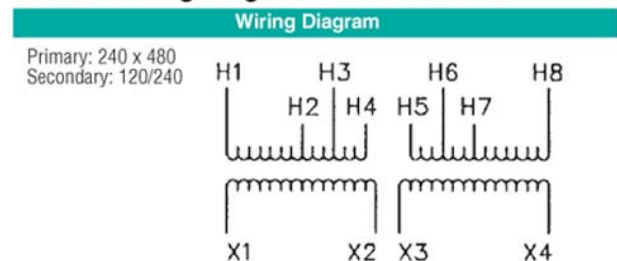
S480A Wiring Diagram & Connections*



Connections

Primary Volts	Interconnect	Primary Lines Connect To	Secondary Lines Connect To
480	H2 to H3	H1-H4	X1-X4
240	H1 to H3 H2 to H4	H1-H4	X1-X4
240	X2 to X3		X1-X4
120/240	X2 to X3		X1-X2-X4
120	X1 to X3 X2 to X4		X1-X4

S480B Wiring Diagram & Connections*

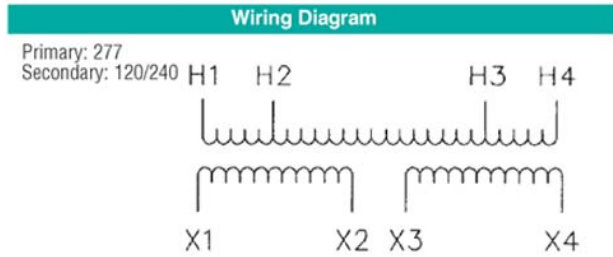


Connections

Primary Volts	Interconnect	Primary Lines Connect To	Secondary Lines Connect To
504	H4 to H5	H1 and H8	X1 and X4
492	H3 to H5	H1 and H8	X1 and X4
480	H3 to H6	H1 and H8	X1 and X4
468	H2 to H6	H1 and H8	X1 and X4
456	H2 to H7	H1 and H8	X1 and X4
252	H1 to H5 H4 to H8	H1 and H8	X1 and X4
240	H1 to H6 H3 to H8	H1 and H8	X1 and X4
228	H1 to H7 H2 to H8	H1 and H8	X1 and X4
240	X2 to X3		X1 and X4
120/240	X2 to X3		X1-X2-X4
120	X1 to X3 X2 to X4		X1-X4

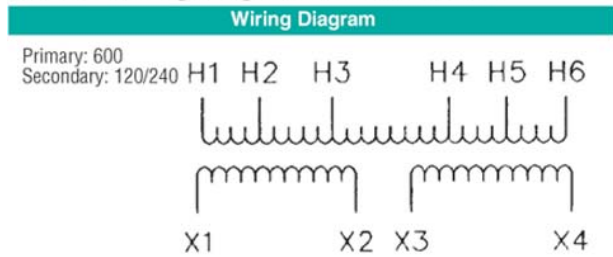
Class I Div 2 Wiring Diagrams

S277A Wiring Diagram & Connections*



Connections		
Primary Volts	Primary Lines Connect To	
277	H1-H4	
270	H1-H3	
263	H2-H3	
Sec. Volts	Interconnect	Secondary Lines Connect To
240	X2 to X3	X1-X4
120/240	X2 to X3	X1-X2-X4
120	X1 to X3 X2 to X4	X1-X4

S600B Wiring Diagram & Connections*



Connections		
Primary Volts	Primary Lines Connect To	
600	H1-H6	
585	H1-H5	
570	H2-H5	
555	H2-H4	
540	H3-H4	
Sec. Volts	Interconnect	Secondary Lines Connect To
240	X2 to X3	X1-X4
120/240	X2 to X3	X1-X2-X4
120	X1 to X3 X2 to X4	X1-X4

Class I Div 2 - Three Phase

3 - 75KVA, Temperature Rise - 115°C @ 40°C ambient standard

KVA	Catalog Number	Fig.	Height (A)	Width (B)	Depth (C)	Wiring Diagram	Est. Ship Wgt. (lbs)
208 Volts - 208/120 Volts 60Hz • Taps: 2 - 5% FCBN							
3	413-2108-010	4	13.12	15.12	8.06	T208H	110
6	413-2128-010	4	13.12	15.12	8.06		140
9	413-2148-010	4	15.12	19	9.06		190
15	413-2168-010	4	15.12	19	9.06		245
30	413-2198-010	21	33	23	9.5		890
45	413-2218-010	21	36	24.5	11		790
75	413-2238-010	21	37	25	12.5		1050
208 Volts - 480/277 Volts 60Hz • Taps: 2 - 5% FCBN							
3	413-2101-010	4	13.12	15.12	8.06	T208A	110
6	413-2121-010	4	13.12	15.12	8.06		140
9	413-2141-010	4	15.12	19	9.06		190
15	413-2161-010	4	15.12	19	9.06		245
30	413-2191-010	21	33	23	9.5		890
45	413-2211-010	21	36	24.5	11		790
75	413-2231-010	21	37	25	12.5		1050
240 Volts - 208/120 Volts 60Hz • Taps: 2 - 5% FCBN							
3	413-2102-010	4	13.12	15.12	8.06	T240A	110
6	413-2122-010	4	13.12	15.12	8.06		140
9	413-2142-010	4	15.12	19	9.06		190
15	413-2162-010	4	15.12	19	9.06		245
30	413-2192-010	21	33	23	9.5		890
45	413-2212-010	21	36	24.5	11		790
75	413-2232-010	21	37	25	12.5		1050
240 Volts - 480/277 Volts 60Hz • Taps: 2 - 5% FCBN							
3	413-2103-010	4	13.12	15.12	8.06	T240G	110
6	413-2123-010	4	13.12	15.12	8.06		140
9	413-2143-010	4	15.12	19	9.06		190
15	413-2163-010	4	15.12	19	9.06		245
30	413-2193-010	21	33	23	9.5		890
45	413-2213-010	21	36	24.5	11		790
75	413-2233-010	21	37	25	12.5		1050



Class I Div 2 - Three Phase

3 - 75KVA, Temperature Rise - 115°C @ 40°C ambient standard

KVA	Catalog Number	Fig.	Height (A)	Width (B)	Depth (C)	Wiring Diagram	Est. Ship Wgt. (lbs)
480 Volts - 208/120 Volts 60Hz • Taps: 2 - 5% FCBN							
3	413-2104-010	4	13.12	15.12	8.06	T480A	110
6	413-2124-010	4	13.12	15.12	8.06		140
9	413-2144-010	4	15.12	19	9.06		190
15	413-2164-010	4	15.12	19	9.06		245
30	413-2194-010	21	33	23	9.5		890
45	413-2214-010	21	36	24.5	11		790
75	413-2234-010	21	37	25	12.5		1050
480 Volts - 240 Volts 60Hz • Taps: 2 - 5% FCBN							
3	413-2107-010	4	13.12	15.12	8.06	T480B	110
6	413-2127-010	4	13.12	15.12	8.06		140
9	413-2147-010	4	15.12	19	9.06		190
15	413-2167-010	4	15.12	19	9.06		245
30	413-2197-010	21	33	23	9.5		890
45	413-2217-010	21	36	24.5	11		790
75	413-2237-010	21	37	25	12.5		1050
480 Volts - 480/277 Volts 60Hz • Taps: 2 - 5% FCBN							
3	413-2105-010	4	13.12	15.12	8.06	T480C	110
6	413-2125-010	4	13.12	15.12	8.06		140
9	413-2145-010	4	15.12	19	9.06		190
15	413-2165-010	4	15.12	19	9.06		245
30	413-2195-010	21	33	23	9.5		890
45	413-2215-010	21	36	24.5	11		790
75	413-2235-010	21	37	25	12.5		1050
600 Volts - 208/120 Volts 60Hz • Taps: 2 - 5% FCBN							
3	413-2109-010	4	13.12	15.12	8.06	T600A	110
6	413-2129-010	4	13.12	15.12	8.06		140
9	413-2149-010	4	15.12	19	9.06		190
15	413-2169-010	4	15.12	19	9.06		245
30	413-2199-010	21	33	23	9.5		890
45	413-2219-010	21	36	24.5	11		790
75	413-2239-010	21	37	25	12.5		1050

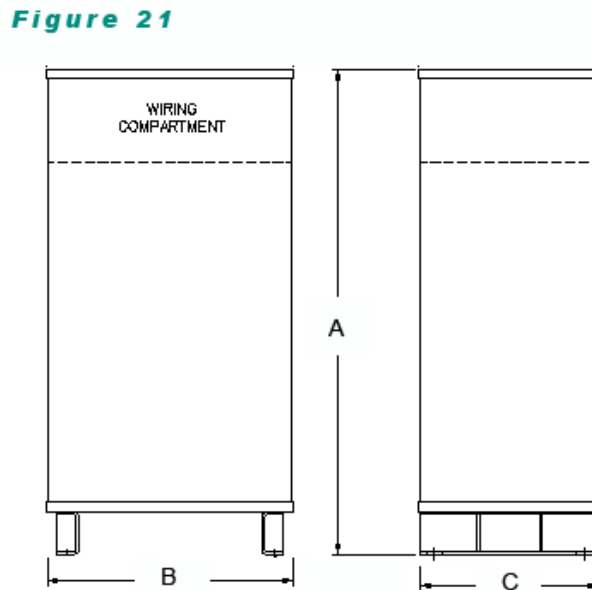
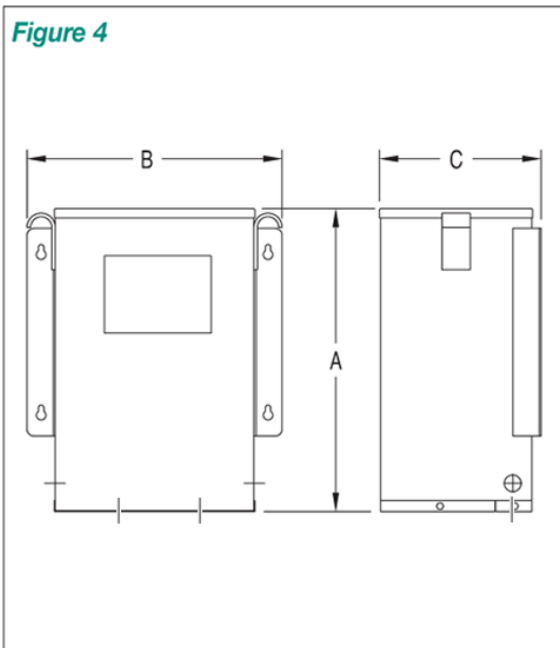


Class I Div 2 - Three Phase

3 - 75KVA, Temperature Rise - 115°C @ 40°C ambient standard

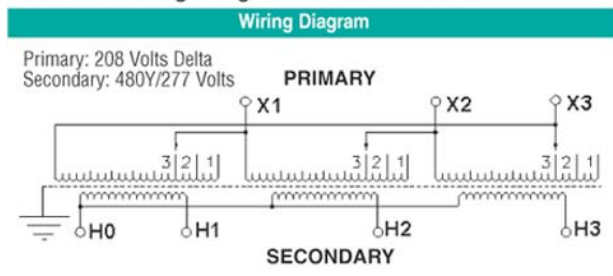
KVA	Catalog Number	Fig.	Height (A)	Width (B)	Depth (C)	Wiring Diagram	Est. Ship Wgt. (lbs)
600 Volts - 480/277 Volts 60Hz • Taps: 2 - 5% FCBN							
3	413-210B-010	4	13.12	15.12	8.06	T600H	110
6	413-212B-010	4	13.12	15.12	8.06		140
9	413-214B-010	4	15.12	19	9.06		190
15	413-216B-010	4	15.12	19	9.06		245
30	413-219B-010	21	37	25	12.5		890
45	413-221B-010	21	37	25	12.5		790
75	413-223B-010	21	37	25	12.5		1050

Class I Div 2 Transformer Dimensional Diagrams



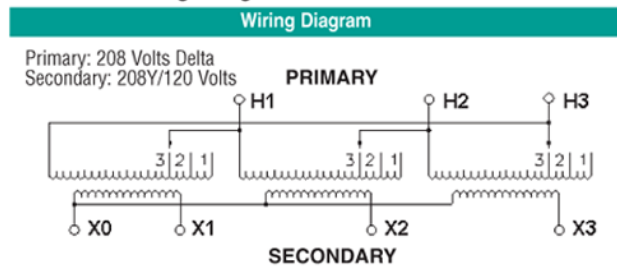
Class I Div 2 Wiring Diagrams

T208A Wiring Diagram & Connections*



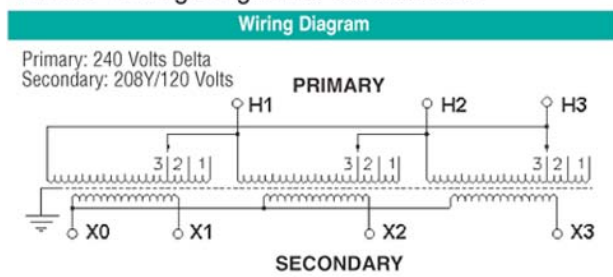
Connections		
Primary Volts	Jumper Taps To	Primary Lines Connect To
208	1	X1, X2, X3
198	2	X1, X2, X3
187	3	X1, X2, X3
Sec. Volts	Secondary Lines Connect To	
480	H1, H2, H3	
277	Between H0 and H1 or H2 or H3	
1 Phase		

T208H Wiring Diagram & Connections*



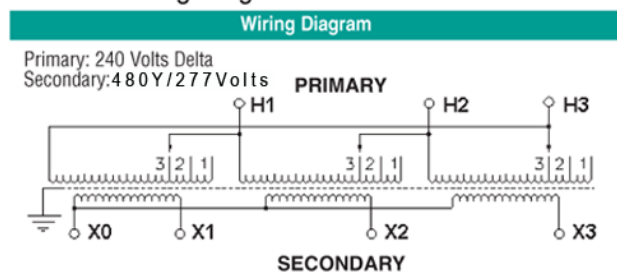
Connections		
Primary Volts	Jumper Taps To	Primary Lines Connect To
208	1	H1, H2, H3
198	2	H1, H2, H3
187	3	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
208	X1, X2, X3	
120	Between X0 and X1 or X2 or X3	
1 phase		

T240A Wiring Diagram & Connections*



Connections		
Primary Volts	Jumper Taps To	Primary Lines Connect To
240	1	H1, H2, H3
228	2	H1, H2, H3
216	3	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
208	X1, X2, X3	
120	Between X0 and X1 or X2 or X3	
1 phase		

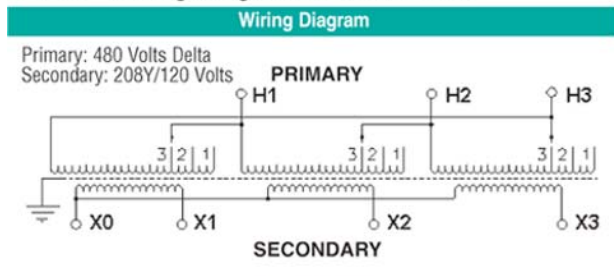
T240G Wiring Diagram & Connections*



Connections		
Primary Volts	Jumper Taps To	Primary Lines Connect To
240	1	H1, H2, H3
228	2	H1, H2, H3
216	3	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
480	X1, X2, X3	
277	Between X0 and X1 or X2 or X3	
1 phase		

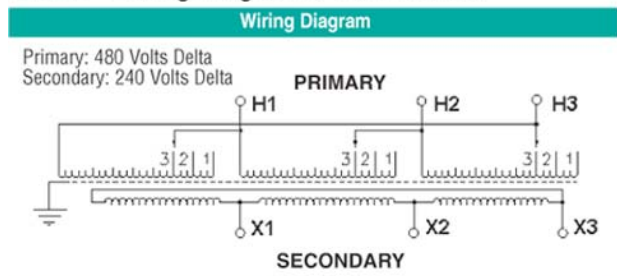
Class I Div 2 Wiring Diagrams

T480A Wiring Diagram & Connections*



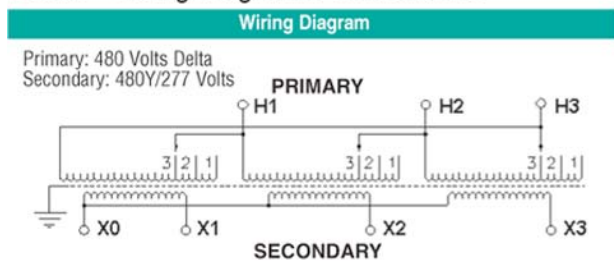
Connections		
Primary Volts	Jumper Taps To	Primary Lines Connect To
480	1	H1, H2, H3
456	2	H1, H2, H3
432	3	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
208	X1, X2, X3	
120	Between X0 and X1 or X2 or X3	
1 phase		

T480B Wiring Diagram & Connections*



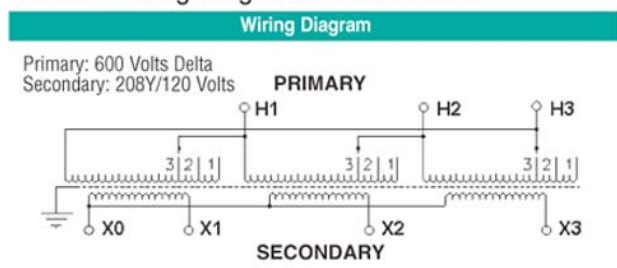
Connections		
Primary Volts	Jumper Taps To	Primary Lines Connect To
480	1	H1, H2, H3
456	2	H1, H2, H3
432	3	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
240	X1, X2, X3	

T480C Wiring Diagram & Connections*



Connections		
Primary Volts	Jumper Taps To	Primary Lines Connect To
480	1	H1, H2, H3
456	2	H1, H2, H3
432	3	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
480	X1, X2, X3	
277	Between X0 and X1 or X2 or X3	
1 phase		

T600A Wiring Diagram & Connections*



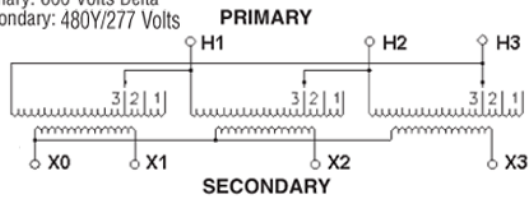
Connections		
Primary Volts	Jumper Taps To	Primary Lines Connect To
600	1	H1, H2, H3
570	2	H1, H2, H3
540	3	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
208	X1, X2, X3	
120	Between X0 and X1 or X2 or X3	
1 phase		

Class I Div 2 Wiring Diagrams

T600 H Wiring Diagram & Connections*

Wiring Diagram

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



Connections

Primary Volts	Jumper Taps To	Primary Lines Connect To
600	1	H1, H2, H3
570	2	H1, H2, H3
540	3	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
480	X1, X2, X3	
277 1 phase	Between X0 and X1 or X2 or X3	

