

15 to 1,650 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 on most units
- Lugs provided for units up to and including 50 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 through 250 kVA



Standards

- Meets DOE-2016 standard Part 431, Subpart K for energy efficiency
- Meets NRCAN 2019 requirements, C802.2.18 Standard for energy efficiency
- Built in accordance with NEMA, ANSI, UL and CSA standards

Options and Accessories

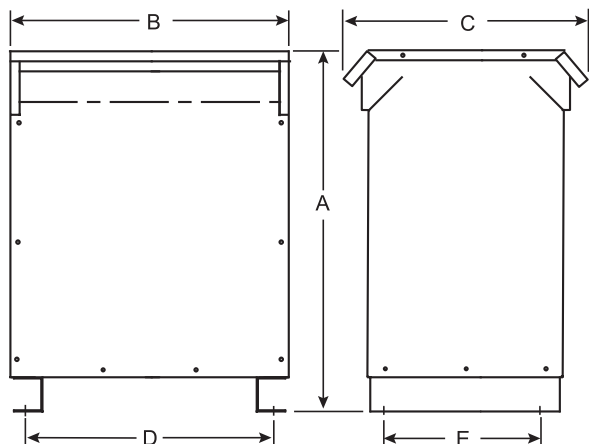
- Other sizes, voltages and temperature rises available
- Copper windings
- CE Marked units available as custom
- Wall brackets available for units up to 75 kVA

Approvals



Enclosure Figure

Figure 24



Model Numbers Defined*

421-TXXY-ABC

Single-Phase, Ventilated
Floor Mount

Type

C802 compliant 5
DOE compliant 9

kVA Rating / XX		kVA Rating / XX	
15	16	112.5	25
20	17	150	26
25	18	167	27
30	19	200	28
37.5	20	225	29
45	21	250	30
50	22	300	31
75	23	333	32
100	24		

Up to 1,650 kVA available as specials

Primary	Secondary	
120x240	120/240	1
208	120/240	2
Custom		3
277	120/240	4
240x480	120/240	5
Specials*		6
120x240	120/240	7
600	120/240	8
Custom		9

Wiring

Aluminum 0
Copper 8

Temperature Rise

150°C 0
115°C 1
80° 8

Shield

No shield 0
Shield 5

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

Part Number	Description	Max Unit Wgt (lbs)
400-4701-222	For Single Phase units, 15" width	250
400-4701-223	For Single Phase units, 17" width	750
400-4701-224	For Single Phase units, 20" width	750
400-4701-225	For Single Phase units, 22" 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

*Suffix defined incrementally

⊛ Not all features listed are compatible

Single-Phase General Purpose Transformers – DOE Compliant

150°C Temperature Rise • Aluminum Windings • NEMA3R Enclosures

Taps: 2 @ 2.5% FCAN & 4 @ 2.5% FCBN

240 x 480V — 120/240V										
kVA	Catalog Number	Enclosure Figure	Height (A) inches	Width (B) inches	Depth (C) inches	(D) inches	(E) inches	Est Ship Wgt	Wiring Diagram	Wall Mounting Bracket Kit
15	421-9165-000	24	27	15	20.5	12.5	11	190	S480F	223-7008-030
25	421-9185-000	24	29	17	22.5	14	13	265	S480F	223-7008-075
37.5	421-9205-000	24	31	20	23.5	16.9	14	330	S480F	223-7008-075
50	421-9225-000	24	32	22	25.5	19	16	465	S480F	223-7008-075
75	421-9235-000	24	34	22	27.5	19	16	555	S480F	223-7008-075
100	421-9245-000	24	36	22	29.5	19	18	690	S480F	n/a
150	421-9265-000	24	55	34	37	31	25	1255	S480F	n/a
167	421-9275-000	24	55	34	37	31	25	1300	S480F	n/a
200	421-9285-000	24	52	35	37	31.5	25	1355	S480F	n/a
250	421-9305-000	24	55	39	44	31.5	25	1690	S480F	n/a
300	421-9315-000	24	TBD	TBD	TBD	TBD	TBD	TBD	S480F	n/a
333	421-9325-000	24	TBD	TBD	TBD	TBD	TBD	TBD	S480F	n/a

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600V — 120/240V										
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15	421-9168-000	24	27	15	20.5	12.5	11	190	S600E	223-7008-030
25	421-9188-000	24	29	17	22.5	14	13	265	S600E	223-7008-075
37.5	421-9208-000	24	31	20	23.5	16.9	14	330	S600E	223-7008-075
50	421-9228-000	24	32	22	25.5	19	16	405	S600E	223-7008-075
75	421-9238-000	24	34	22	27.5	19	16	620	S600E	223-7008-075
100	421-9248-000	24	36	22	29.5	19	18	725	S600E	n/a
150	421-9268-000	24	55	34	37	31	25	1255	S600E	n/a
167	421-9278-000	24	55	34	37	31	25	1300	S600E	n/a
200	421-9288-000	24	52	35	37	31.5	25	1355	S600E	n/a
250	421-9308-000	24	55	39	44	31.5	25	1690	S600E	n/a
300	421-9318-000	24	TBD	TBD	TBD	TBD	TBD	TBD	S600E	n/a
333	421-9328-000	24	TBD	TBD	TBD	TBD	TBD	TBD	S600E	n/a

Housing dimensions subject to change without notice.

1-4 Single-Phase Ventilated

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200	421-5285-000	24	52	35	37	31.5	25	1355	S480F	n/a
250	421-5305-000	24	55	39	44	31.5	25	1690	S480F	n/a
300	421-5315-000	24	TBD	TBD	TBD	TBD	TBD	TBD	S480F	n/a
333	421-5325-000	24	TBD	TBD	TBD	TBD	TBD	TBD	S480F	n/a

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333	421-5328-000	24	TBD	TBD	TBD	TBD	TBD	TBD	S600E	n/a

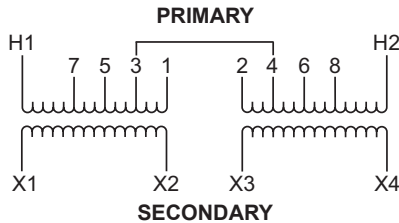
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Wiring Diagrams

S480F Wiring Diagram & Connections

Wiring Diagram

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



Connections

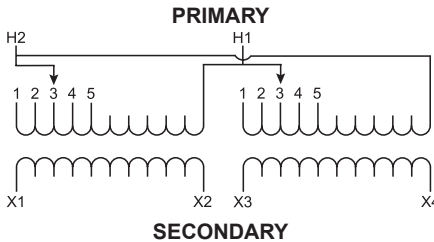
Primary Volts	Jumpers Between Taps Left Coil	Jumpers Between Taps Right Coil	Primary Lines Connect To
504	1	2	H1, H2
492	3	2	H1, H2
480	3	4	H1, H2
468	5	4	H1, H2
456	5	6	H1, H2
444	7	6	H1, H2
432	7	8	H1, H2
252	H2, 1	H1, 2	H1, H2
240	H2, 3	H1, 4	H1, H2
228	H2, 5	H1, 6	H1, H2
216	H2, 7	H1, 8	H1, H2

Secondary 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

S600E Wiring Diagram & Connections

Wiring Diagram

Primary: 600 Volts
Secondary: 120/240 Volts



Connections

Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
630	1	H1, H2
615	2	H1, H2
600	3	H1, H2
585	4	H1, H2
570	5	H1, H2

Secondary 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