

### VENTILATED

**Single Phase 37.5 to 250 kVA, Three Phase 15 to 1000 kVA**

#### Features

- With weather shield, UL Type 3R enclosure or Type 2 enclosure without weather shield. UL and cUL listed.
- UL Class 220°C insulation system, 150°C rise.
- Extra large wiring compartment for easier installation and cooler case temperatures.
- NEMA standard bus bar terminals, no special tools needed to make clearly marked connections. Tap changing easily accomplished with jumpers.
- Aluminum windings for increased insulation life, cooler operation, lower losses.
- Noise and vibration isolating pads standard to assure quiet operation.
- Large permanently legible nameplates on front.
- Single phase units can be banked for 3 phase service.
- All units have ground studs for use with non-metallic conduit.
- Suitable for wall or "trapeze" mounting. Wall brackets are available for units up to 50 kVA single and 75 kVA three phase.
- Other models are available with class 220°C insulation and either 115°C or 80°C rise operating temperature.
- Three phase units 15-112.5 kVA have pre-installed lugs.

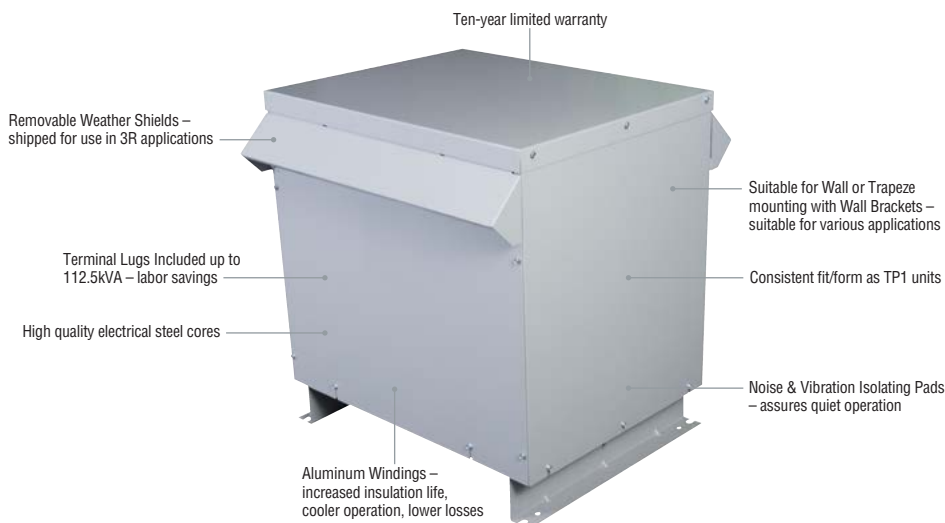
#### Energy Efficient Transformers

**DOE 2016 - DOE 10 CFR Part 431 NRCAN 2019 - SOR/2018-201**

Replacing older general purpose transformers with our DOE 2016/NRCAN 2019 will result in increased profitability from lower operating costs as well as a positive impact on the environment from a reduced carbon footprint.

#### Features:

- Core Design. Cores are high-quality electrical steel from industry-leading suppliers
- 3R Compliant. All new units ship with weather shields already installed
- Flexibility. When a weather shield is not needed, it can easily be removed
- Terminal Lugs. Primary and secondary terminals come standard with lugs (up to 112.5kVA) for quicker, easier connections
- Isolating Pads. Extra padding reduces noise and vibration, assuring quiet operation
- Aluminum Windings. Aluminum provides increased insulation life, cooler operation, and lower losses
- Consistent Fit/Form. Enclosure sizes of DOE 2016 units are identical to TP-1 sizes



#### THREE PHASE EFFICIENCY STANDARD

kVA	TP1	DOE 2016 NRCAN 2019
15	97.0%	97.89%
30	97.5%	98.23%
45	97.7%	98.40%
75	98.0%	98.60%
112.5	98.2%	98.74%
150	98.3%	98.83%
225	98.5%	98.94%
300	98.6%	99.02%
500	98.7%	99.14%
750	98.8%	99.23%
1000	98.9%	99.28%



### 440 DELTA PRIMARY VOLTS — 220Y/127 SECONDARY VOLTS — 3Ø, 50 Hz

kVA	Catalog Number	Height (Inches)(Cm.)	Width (Inches)(Cm.)	Depth (Inches)(Cm.)	Weight (Lbs.)(Kg.)	Mounting Type (Wall)(Floor)	Knockouts (Inches)(Cm.)	Weather Shield	Wiring Diagrams	Design Figures
10.0	TF220105S	18.90 (48.0)	20.30 (51.6)	9.00 (22.9)	245 (111.1)	F ①	NA	NA	73	I
15.0	TF220155S	25.50 (64.8)	24.40 (62.0)	19.40 (49.3)	291 (132.0)	F ①	NA	WSA1	73	E
25.0	TF220255S	25.50 (64.8)	24.40 (62.0)	19.40 (49.3)	375 (170.1)	F ①	NA	WSA1	73	E
50.0	TF220505S	29.41 (74.7)	28.15 (71.5)	22.37 (56.8)	437 (198.2)	F ①	NA	WSA2	73	E

① Wall mounting brackets are available for these sizes, refer to page 41.

### 480 DELTA PRIMARY VOLTS — 208Y/120 SECONDARY VOLTS — MAY BE USED ON A 4 WIRE 480Y/277 VOLTS SUPPLY— 3Ø, 60 Hz DOE/NRCan 2019 Compliant

kVA	Catalog Number	Height (Inches)(Cm.)	Width (Inches)(Cm.)	Depth (Inches)(Cm.)	Weight (Lbs.)(Kg.)	Mounting Type (Wall)(Floor)	Knockouts (Inches)(Cm.)	Optional Electrostatic Shield	Wiring Diagrams	Design Figures
3.0	T2A533081S	10.38 (26.4)	12.37 (31.4)	7.47 (19.0)	75 (34.0)	W	0.75-1.25 (1.9-3.2)	STD.	21	F
6.0	T2A533091S	11.83 (30.0)	14.17 (36.0)	8.82 (22.4)	140 (63.5)	W	0.75-1.25 (1.9-3.2)	STD.	21	F
9.0	T2A533101S	14.03 (36.0)	17.77 (45.1)	11.52 (29.3)	180 (81.6)	W	0.75-1.25 (1.9-3.2)	STD.	21	F
15.0	T3533111S	18.86 (48.0)	20.30 (51.6)	9.03 (22.9)	250 (113.0)	F ①	NA	STD.	21	I
15.0	T3015K0013B	25.50 (64.8)	24.39 (61.9)	19.37 (49.2)	300 (136.0)	F ①	NA	YES ②	22	E
30.0	T3030K0013B	25.50 (64.8)	24.39 (61.9)	19.37 (49.2)	360 (163.2)	F ①	NA	YES ②	22	E
45.0	T3045K0013B	25.50 (64.8)	24.39 (61.9)	19.37 (49.2)	500 (226.8)	F ①	NA	YES ②	22	E
75.0	T3075K0013B	29.41 (74.7)	28.15 (71.5)	22.37 (56.8)	600 (272.2)	F ①	NA	YES ②	22	E
112.5	T3112K0013B	35.47 (90.1)	31.90 (81.0)	26.88 (68.2)	938 (425.5)	F	NA	YES ②	22	E
150.0	T3150K0013B	41.52 (105.4)	32.90 (83.5)	29.87 (75.9)	1213 (550.2)	F	NA	YES ②	22	E
225.0	T3225K0013B	41.52 (105.4)	32.90 (83.5)	29.87 (75.9)	1500 (680.4)	F	NA	YES ②	22	E
300.0	T3300K0013B	45.60 (115.8)	39.50 (100.3)	35.50 (90.1)	1938 (879.0)	F	NA	YES ②	22	E
500.0	T3500K0013B	57.80 (147.0)	45.60 (115.8)	41.50 (105.4)	3100 (1406.1)	F	NA	YES ②	22	G
750.0	T3750K0013B	62.80 (159.5)	54.00 (137.1)	41.50 (105.4)	4500 (2041.1)	F	NA	YES ②	22	G
1000.0	T3001M0012B	62.80 (159.5)	54.00 (137.1)	41.50 (105.4)	5375 (2438.0)	F	NA	YES ②	80	G

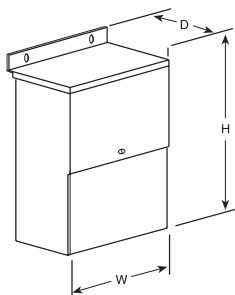
① Wall mounting brackets are available for these sizes, refer to page 41.

② Add "S" to part number

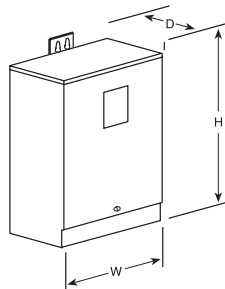


## Section 1 | Design Figures

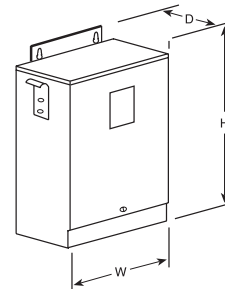
*These drawings are for reference only. Contact factory for certified drawings.*



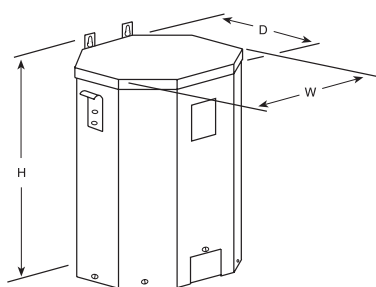
**Design A**



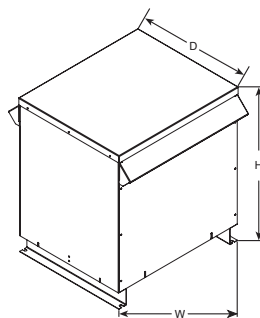
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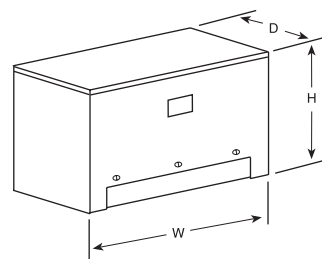
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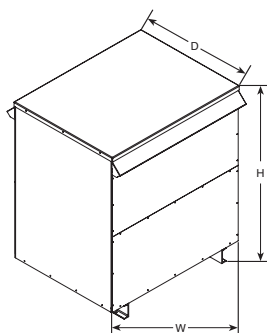
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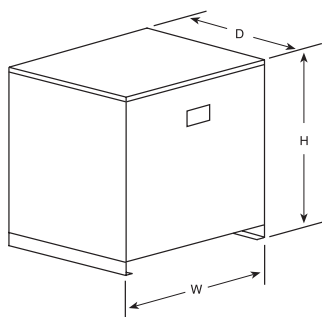
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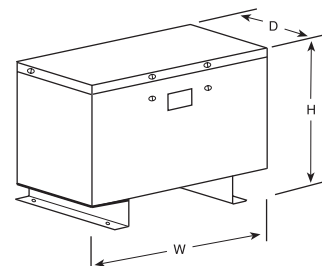
**Design F**



**Design G**



**Design H**

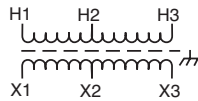


**Design I**

## Section 1 | Wiring Diagrams / Accessories

**78**

**PRIMARY: 277/480 Volts**  
**SECONDARY: 208/277 Volts**  
**TAPS: NONE**



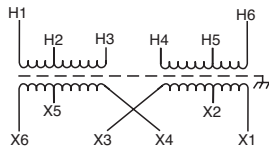
Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
277	H1 & H2		
480	H1 & H3		

### Secondary Volts

208			X1 to X2
277			X1 to X3

**79**

**PRIMARY: 277/480 Volts**  
**SECONDARY: 208/277 Volts**  
**TAPS: NONE**



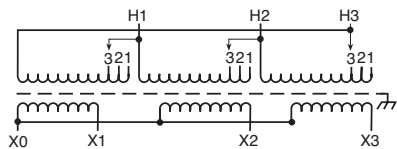
Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
277	H1 - H5	H2 to H4	
480	H1 - H6	H3 to H4	

### Secondary Volts

208		X2 to X4	X1 - X5
277		X3 to X4	X1 - X6

**80**

**PRIMARY: 480 Volts Delta**  
**SECONDARY: 208Y/120 Volts**  
**TAPS: 1, 5% ANFC & 1, 5% BNFC**



Primary Volts	Connect Primary Lines To	Inter-Connect	Connect Secondary Lines To
504	H1, H2, H3	1	
480	H1, H2, H3	2	
456	H1, H2, H3	3	

### Secondary Volts

208			X1, X2, X3
120 1 phase			X1 to X0 X2 to X0 X3 to X0



## WALL MOUNTING BRACKET

Required on:

Ventilated Units:

1Ø, 37.5 and 50 kVA

3Ø, 30, 45 and 75 kVA

Catalog Number: PL-79912

Encapsulated Units:

3Ø dit., 11 kVA — 20 kVA

3Ø std. distribution — 15 kVA

Catalog Number: PL-79911

Wall mounting brackets are not required on:

1Ø units — 25 kVA and below

3Ø units — 9 kVA and below

