

Encapsulated Single Phase, .05 to .150 kVA

Features

- UL listed, CSA certified and UL-3R enclosure meets or exceeds all listing criteria including NEMA, ANSI and OSHA standards.
- Easy and convenient installation to meet your requirements, the transformer can be mounted in any position.
- Long Life UL class 130°C insulation system. Transformers can be banked for three phase service.
- Large wiring compartment, no conduit or pull boxes required. Front access for wiring ease. Wiring compartment remains cool.
- Completely enclosed UL-3R enclosure for indoor/outdoor service. Rugged non-ventilated construction.
- Plenty of knockouts for multi-directional entry.
- All copper lead wire terminations.
- Ground studs for use with non-metallic conduit.

Encapsulated Single Phase, .250 to 25 kVA

- Installation keyhole mounting slots for mounting bolts prior to installation. Mounting slots are accessible from the front. Lifting ears are included on 3 to 25 kVA units.
- Wiring flexible copper leadwire terminations for easy connections outside the front access wiring compartment. Dual size knockouts in both sides and the bottom of the wiring compartment for greater wiring convenience and flexibility.

Features

- UL listed, CSA certified and UL-3R enclosures meets or exceeds all listing criteria including NEMA, ANSI and OSHA standards.
- Shielded for cleaner power.
- Encapsulated and completely enclosed design electrical grade silica and resin compounds completely enclose the core and coil to seal out all moisture and air. UL Type 3R enclosure for indoor or outdoor service. Encapsulation eliminates corrosion and insulation deterioration.
- Quiet operation with sound levels well below NEMA standards.
- Long life UL class 155°C insulation system. 115°C rise thru .750 kVA; 180°C insulation system, 115°C rise, 1 kVA and above.
- Available in 316 Stainless Steel and NEMA 4X enclosure.



Encapsulated Three Phase, 3 to 75 kVA

Features

- UL listed, CSA certified and UL-3R enclosure meets or exceeds all listing criteria including NEMA, ANSI and OSHA standards.
- UL Class 180°C insulation system. 115°C rise.
- Extra large front access wiring compartment through 9 kVA; top access through 75 kVA for easier installation and cooler case temperatures.
- Completely enclosed — suitable for indoor/outdoor service. Consult selection charts for details. Excellent for dust or lint laden atmosphere.
- Encapsulated — electrical grade silica and resin compound completely encloses the core and coil. Encapsulation seals out all moisture and air, eliminating corrosion and insulation deterioration.
- High efficiency and excellent regulation.
- Sound levels below NEMA standards.
- Keyhole mounting slots permit installation of mounting bolts prior to hanging transformer and are accessible from the front. Lifting ears for easy installation.
- Wiring connections can be made outside of wiring compartment due to the use of flexible leads.
- 3-9 kVA provided with dual size knockouts in sides and bottom of wiring compartment.
- Termination — copper lead wire.
- Electrostatic shielding provided on all 60 Hz isolation transformers.
- Available in 316 Stainless Steel.

316 Stainless Steel

- 3R enclosure.
- Encapsulated construction.
- Single phase: 0.25 – 25 kVA.
Three phase: 3 – 75 kVA.
- Core and Coil assembly completely encapsulated in polyester or epoxy seals out all moisture, eliminating corrosion and deterioration of insulation.
- Electrostatic shielding.

Applications

- Harsh industrial locations.
- Corrosive chemical exposure.
- Waste water treatment facilities.
- Coastal or marine applications with high salt mist.
- Any application where painted cold roll steel is not adequate.

NEMA 4X Enclosure



- Encapsulated construction
- Single phase: 0.250 – 5kVA
Three phase: 3 – 9kVA
- 304 Stainless Steel
- Doors are sealed with a gasket
- Electrostatic shielding

Class 1 Division 2



- Encapsulated construction
- Three phase: 3 – 45kVA
- Groups A,B,C,D
- Temperature Class T3A
- Optional 316 Stainless Steel
- Electrostatic shielding



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 listed and CSA certified.
- 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.

DOE

Three Phase 15 to 1000 kVA



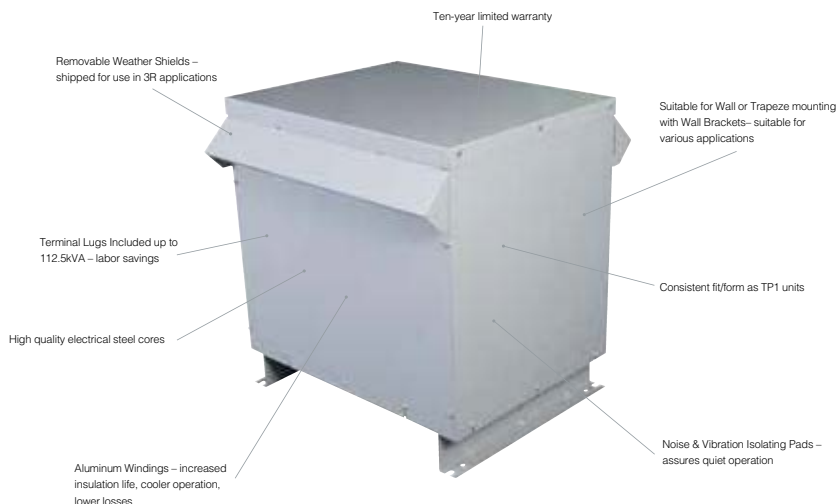
Our new line of general purpose transformers not only meets but exceeds the new, more stringent DOE 2016 Energy Efficiency Standards.

Designed with feedback from our customers, the line is fully compatible in size with comparable transformers meeting the old 2007 TP-1 standards.

Replacing older general purpose transformers with our DOE 2016 compliant equipment 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
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%

600 PRIMARY VOLTS — 480 SECONDARY VOLTS — 3Ø, 60 Hz
480 PRIMARY VOLTS — 380 SECONDARY VOLTS — 3Ø, 50/60 Hz

AUTO TRANSFORMERS

kVA ①		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
Primary 600V Secondary 480V	Primary 480V Secondary 380V										
15.0	12.0	T2527031③	15.21 (38.6)	19.25 (48.9)	7.37 (18.7)	104 (47.2)	W	NA	NA	56	F
30.0	24.0	T2527051③	15.21 (38.6)	19.25 (48.9)	7.37 (18.7)	152 (68.9)	W	NA	NA	56	F
45.0	36.0	T2527071③	15.21 (38.6)	19.25 (48.9)	7.37 (18.7)	156 (70.8)	W	NA	NA	56	F
75.0	60.0	T3527101③	18.86 (47.9)	20.30 (51.6)	9.03 (22.9)	300 (136.1)	F ⑤	NA	NA	56	I
112.5	90.0	T2A527121④	25.50 (64.8)	24.40 (62.0)	19.40 (49.3)	325 (147.0)	F ①	NA	WSA1	57	E
150.0	120.0	T2A527131④	25.50 (64.8)	24.40 (62.0)	19.40 (49.3)	350 (158.8)	F ①	NA	WSA1	57	E
225.0	180.0	T2A527151④	29.41 (74.7)	28.15 (71.5)	22.37 (56.8)	600 (272.0)	F ①	NA	WSA2	57	E
300.0	240.0	T2A527171④	29.41 (74.7)	28.15 (71.5)	22.37 (56.8)	650 (294.8)	F	NA	WSA2	57	E
450.0	360.0	T2A527181④	35.47 (90.1)	31.90 (81.0)	26.88 (68.3)	750 (340.0)	F	NA	WSA3	57	E
500.0	400.0	T2A527191④	35.47 (90.1)	31.90 (81.0)	26.88 (68.3)	790 (358.3)	F	NA	WSA3	57	E

Notes: Autotransformer DOE 2106 exempt

① Wall mounting brackets are available for these sizes, refer to page 217.

② If used on unbalanced loads, these units should only be used on a 4 wire system with the supply neutral connected to the transformer. If used on balanced loads, such as motor loads, then they may be used on a 3 wire system without a neutral or 4th wire.

③ These units are encapsulated with a 115° C temperature rise.

④ These units are ventilated with 150° C temperature rise.

⑤ Wall mounting brackets use PL-79912

All Wiring Diagrams begin on page 209.

ECONOMICAL AUTO ARRANGEMENTS

480 PRIMARY (open delta) VOLTS —
240 SECONDARY (open delta) VOLTS — 3Ø, 60 Hz

THREE PHASE

kVA ①	Quantity ②	Catalog Number ③	Primary Full Load Amps	Secondary Full Load Amps	Maximum Size Fuse or Breaker
3.0	2	T253010S	3.60	7.20	10
5.0	2	T253011S	6.00	12.00	10
6.0	2	T253012S	7.20	14.40	15
10.0	2	T2530134S	12.00	24.00	15
17.0	2	T2530144S	20.50	40.80	30
26.0	2	T2535153S	31.50	63.00	40
34.0	2	T2535163S	41.00	81.60	60
52.0	2	T2535173S	63.00	125.00	80
86.0	2	T2535183S	104.00	206.30	150
130.5	2	TP530193S	157.00	314.00	200
173.0	2	TP530203S	209.00	418.00	300
259.0	2	TP530213S	312.00	623.00	400
346.0	2	TP530223S	417.00	834.00	600
578.0	2	TP530233S	696.00	1392.00	1000
865.0	2	TP530243S	1041.00	2082.00	1600

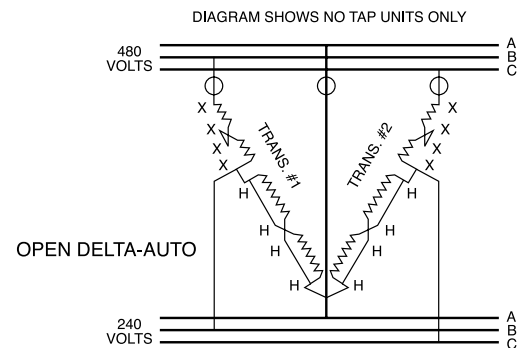
① kVA capacity of three phase autotransformer bank, using two single phase, 60 Hz transformers connected open delta

② Catalog No. is for 1 transformer, 2 units are required.

③ Can be reverse connected with no change in kVA.

④ For transformer dimensions, refer to appropriate table in section 1, page 23.

⑤ For proper overcurrent protection, refer to Article 450-4 of N.E.C.



⑤ 0 = Fuse location NEC 450-4, 2014

The diagram is for illustration purposes only. Please contact the factory for construction details. Each Acme transformer is shipped with detailed wiring diagrams. Refer to nameplate located inside the front cover for specific voltage tap combinations.