UL-3R Enclosures

ENCAPSULATED SINGLE PHASE, .05 to .150 kVA

FEATURES

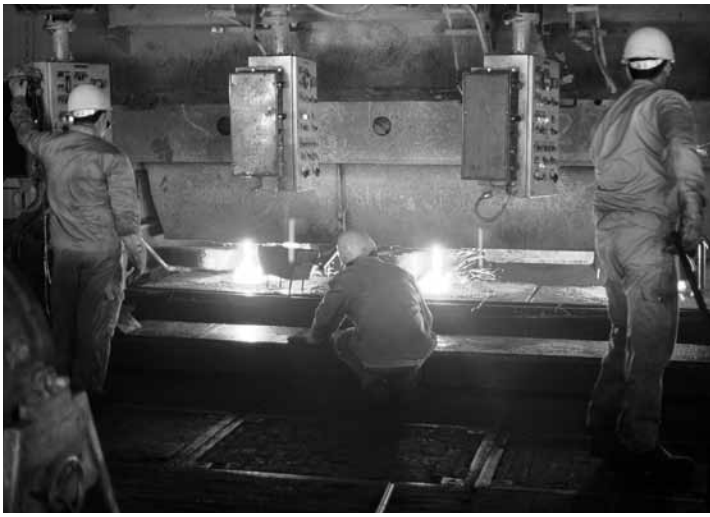
- **UL listed, CSA certified and UL-3R enclosure** meets or exceeds all listing criteria including NEMA, ANSI and OSHA standards.
- **Easy and convenient installation** to meet your requirements, the transformer can be mounted in any position.
- **Long Life** UL class 130°C insulation system. Transformers 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.



Shielded Power in Many Design Styles

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.

NOTE: Units above 15 kVA apply to Groups F and K.

316 STAINLESS STEEL TRANSFORMERS

FEATURES

- 3R enclosure.
- Encapsulated construction.
- Single phase: 0.25 – 25 kVA.
  Three phase: 3 – 7.5 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

VENTILATED
SINGLE PHASE 37.5 to 250 kVA
THREE PHASE 25 to 1000 kVA

FEATURES

- **With weather shield, UL Type 3R enclosure** 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. Refer to Opti-Miser® Section.
- **Termination** — single phase 37.5 to 100 kVA, copper bus; 167 to 250 kVA, aluminum bus. Three phase 27 to 225 kVA, copper bus; Groups D, G & J 30 to 225 kVA and all 275 to 1000 kVA, aluminum bus.
- **Electrostatic shielding** provided on all 60 Hz isolation transformers. Not available on Groups D1 and G.

GROUP D

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

kVA	CATALOG NO.	APPROX. DIMENSIONS Inches (Cm.)			APPROX. SHIP WEIGHT Lbs. (Kg.)	TYPE MTG. W – Wall F – Floor	KNOCKOUTS Inches (Cm.)	WEATHER SHIELD P/N	Wiring Diagrams & Design Figures Begin on Page 122
		HEIGHT	WIDTH	DEPTH					
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)	NA	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)	NA	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)	NA	21–F
15.0	T3533111S	18.86 (48.0)	20.30 (51.6)	9.03 (22.9)	250 (113.0)	F ①	NA	NA	21–I
30.0	TP533123S	25.50 (64.8)	24.39 (61.9)	19.37 (49.2)	290 (132.0)	F ①	NA	WSA1	22–E
45.0	TP533133S	25.50 (64.7)	24.39 (61.9)	19.37 (49.2)	400 (181.0)	F ①	NA	WSA1	22–E
75.0	TP533143S	29.41 (74.7)	28.15 (71.5)	22.37 (56.8)	500 (226.8)	F ①	NA	WSA2	22–E
112.5	TP533153S	35.47 (90.1)	31.90 (81.0)	26.88 (68.3)	750 (340.0)	F	NA	WSA3	22–E
150.0	TP533163S	41.52 (105.5)	32.90 (83.6)	29.87 (75.9)	970 (440.0)	F	NA	WSA4	22–E
225.0	TP1533173S	41.52 (105.5)	32.90 (83.6)	29.87 (75.9)	1200 (544.0)	F	NA	WSA4	22–E
300.0	TP533183S	45.60 (115.8)	39.50 (100.3)	35.50 (90.2)	1550 (703.0)	F	NA	WSA5	22–E
500.0	TP1533193S	57.80 (146.8)	45.60 (115.8)	41.50 (105.4)	2480 (1125.0)	F	NA	WSA7	22–G
750.0	TP1533213S	62.80 (159.5)	54.00 (137.2)	41.50 (105.4)	3600 (1633.0)	F	NA	WSA6	22–G
1000.0	TP1533222S	62.80 (159.5)	54.00 (137.2)	41.50 (105.4)	4300 (1950.0)	F	NA	WSA6	80–G

Notes: 3.0 through 15.0 kVA units encapsulated (exempt from TP1), 30.0 through1000.0 kVA TP1 compliant

GROUP D2

480 DELTA PRIMARY VOLTS — COPPER WINDINGS — 208Y/120 SECONDARY VOLTS, 150°C RISE — 3Ø, 60 Hz

kVA	CATALOG NO.	APPROX. DIMENSIONS Inches (Cm.)			APPROX. SHIP WEIGHT Lbs. (Kg.)	TYPE MTG. W – Wall F – Floor	KNOCKOUTS Inches (Cm.)	WEATHER SHIELD P/N	Wiring Diagrams & Design Figures Begin on Page 122
		HEIGHT	WIDTH	DEPTH					
15.0	TC533111S *	18.90 (48.0)	20.30 (51.6)	9.00 (22.9)	245 (111.1)	F ①	NA	NA	21–I
30.0	TPC533123S	25.50 (64.8)	24.40 (62.0)	19.40 (49.3)	346 (157.0)	F ①	NA	WSA1	22–E
45.0	TPC533133S	25.50 (64.8)	24.40 (62.0)	19.40 (49.3)	397 (180.1)	F ①	NA	WSA1	22–E
75.0	TPC533143S	29.41 (74.7)	28.15 (71.5)	22.37 (56.8)	521 (236.3)	F ①	NA	WSA2	22–E
112.5	TPC533153S	35.47 (90.1)	31.90 (81.0)	26.88 (68.3)	766 (347.5)	F	NA	WSA3	22–E
150.0	TPC533163S	41.52 (105.5)	32.90 (83.6)	29.87 (75.9)	1026 (465.4)	F	NA	WSA4	22–E
225.0	TPC533173S	41.52 (105.5)	32.90 (83.6)	29.87 (75.9)	1300 (589.7)	F	NA	WSA4	22–E
300.0	TPC533183S	45.60 (115.8)	39.50 (100.3)	35.50 (90.2)	1551 (703.5)	F	NA	WSA5	22–E
500.0	TPC533193S	57.80 (146.8)	45.00 (114.3)	41.50 (105.4)	2819 (1278.7)	F	NA	WSA7	22–E

*** NOTE:** TC-53311-1S—Encapsulated, 115° C Rise, 180°C Insulation (TP1 exempt), 30.0 through 500 kVA TP1 compliant

① Wall mounting brackets are available for these sizes, refer to page 133.
② Consult factory for wiring diagram.