



# Three Phase Dry Type Power Transformers

## Up To 15 MVA, 46 kV 200 kV Bil

### INSULATION SYSTEM

**Standard:** Polyester Varnish Class 220°C Insulation System  
**Options:** Epoxy Cast Class 185°C Insulation System  
 Epoxy Encapsulated (Epoxy Seal) Class 220°C Insulation System

### WINDING TEMPERATURE RISE

**Standard:** Average Winding 150°C  
**Option:** Average Winding 115°C or 80°C

### TYPE COOLING

**Standard:** ANN Natural Convection Cooling  
**Options:** ANN/ANF Natural Convection Cooling plus Forced Air Cooling with Fans to obtain 33% additional capacity  
 ANC Totally Enclosed Unit

### WINDING MATERIAL

**Standard:** Copper  
**Options:** Aluminum  
 Combination of Copper and Aluminum

### TAPS AND TAP CHANGER

**Standard:** Off Load Tap 2-2.5% FCAN and 2-2.5% FCBN Tap Links and Terminal Board  
**Option:** Designed to customer specification

### TERMINATIONS

**Standard:** HV and LV Stub Up  
**Option:** Bussed to customer specification or coordinated to switchgear

### BASIC IMPULSE LEVELS

**Standard:** Designed to CSA Standard C9 and C22.2 No. 47 Standard  
**Option:** Higher Basic Impulse Level to customer specs.

### TYPE OF ENCLOSURE

**Standard:** EEMAC 1 Indoor Ventilated  
**Options:** EEMAC 2 Sprinkler/Drip Proof Ventilated  
 EEMAC 3 Weatherproof Outdoor Filtered Ventilated/Enclosed

### COLOUR OF ENCLOSURE

**Standard:** ASA 61 Grey Interior and Exterior  
**Option:** Painted to customer specification

### IMPEDANCE RANGE

**Standard:** Designed to CSA Standard C9 and C22.2 No.47 Standard Impedance Range  
**Option:** Designed to customer specification to subject to constructional and Short Circuit Performance constraints

### AVERAGE AUDIBLE SOUND LEVEL

**Standard:** Designed to CSA Standard C9 and C22.2 No. 47 Average Audible Sound Level  
**Option:** Designed to customer specification subject to physical constraints

### TESTS

**Standard:** All Production Tests per CSA Standard C9 and C22.2 No. 47 Production Tests  
**Options:** Temperature Rise  
 Sound Level  
 Radio Influence Voltage  
 Partial Discharges (Corona)  
 Basic Insulation Impulse Level

### OPTIONAL ACCESSORIES

Thermometer, Fans, Mimic Diagram  
 Lighting Arrestors, Power Supply Transformer, Special Identification, Interlock Switch, etc.



All Dry Type Transformers are designed, built, and tested to CSA C9 M1981, and are certified by CSA to CSA Standard C22.2 No. 47-M90, up to 12 MVA, 34.5 kV BIL. Liquid Filled Transformers are designed, built and tested to CSA Standard C227.2, C227.4, C@ and C88, up to 20MVA, 72.5kV Class 350 kV BIL.



# Three Phase Dry Type Power Transformers

Up To 15 MVA, 46 kV 200 kV Bil

Capacity (KVA)	Voltage Class (kV)	Dimensions (Inches)			Weight (lbs)	Dimensions (mm)			Weight (kg)
		Width	Height	Depth		Width	Height	Depth	
500	5/15	58	60	60	4850	1470	1625	1525	2200
	25	58	60	60	4850	1470	1625	1525	2200
	34.5	58	60	60	5060	1470	1625	1525	2300
750	46	64	72	64	5830	1625	1830	1625	2650
	5/15	62	66	66	7700	1575	1675	1675	3500
	25	62	66	66	7700	1575	1675	1675	3500
1000	34.5	62	66	66	8140	1575	1675	1675	3700
	46	70	74	78	8800	1780	1880	1980	4000
	5/15	68	72	68	10120	1730	1830	1730	4600
1500	25	68	72	68	10120	1730	1830	1730	4600
	34.5	68	72	68	10560	1730	1830	1730	4800
	46	80	84	80	11880	2030	2130	2030	5400
2000	5/15	76	106	76	11000	1930	2690	1930	5000
	25	76	106	76	11000	1930	2690	1930	5000
	34.5	76	106	76	11880	1930	2690	1930	5400
2500	46	86	114	86	15840	2185	2895	2185	7200
	5/15	80	108	78	14800	2030	2740	1980	6400
	25	80	108	78	14800	2030	2740	1980	6400
3000	34.5	80	108	78	17530	2030	2740	1980	6900
	46	88	118	90	19140	2235	3000	2290	8700
	5/15	82	110	80	15840	2080	2795	2030	7200
4000	25	82	110	80	15840	2080	2795	2030	7200
	34.5	82	112	80	16720	2080	2845	2030	7600
	46	92	120	88	21120	2335	3050	2235	9600
5000	5/15	84	114	82	17160	2135	2895	2080	7800
	25	84	114	82	17160	2135	2895	2080	7800
	34.5	84	116	82	18700	2135	2945	2080	8500
7500	46	94	124	92	22200	3290	3150	2285	10100
	15	90	120	84	20240	2285	3050	2135	9200
	25	90	120	84	20240	2285	3050	2135	9200
10000	34.5	90	124	84	23100	2285	3150	2135	10500
	46	100	134	96	25520	2540	3400	2440	11600
	15	92	122	88	26840	2340	3100	2235	12200
15000	25	92	122	88	26840	2340	3100	2235	12200
	34.5	92	126	90	28380	2340	3200	2275	12900
	46	104	136	102	21460	2640	3455	2590	14300
20000	25	96	124	94	34540	2440	3150	2390	15700
	34.5	96	124	94	34540	2440	3150	2390	15700
	46	112	140	116	39160	2845	3555	2950	17800
25000	25	112	132	100	41800	2845	3350	2540	19000
	34.5	112	132	100	41800	2845	3350	2540	19000
	46	128	156	126	49280	3250	3960	3200	22400
30000	25	122	140	106	56400	3100	3550	2700	25600
	34.5	122	140	106	56400	3100	3550	2700	25600
	46	138	164	132	66700	3505	4165	3350	30300

All dimensions and weights in the above table are for estimating purposes only. Dimensions and weights may vary to meet customer designs and performance specifications. For dimensions and weights of ratings not listed in the table, please contact our office.