


PowerReps, Inc. Transformers

Liquid Filled Transformers

Dry Type

	Pacific Crest	Northern	Romagnole	Olsun
Single Phase (kVA)	XXXXXXXXXX	XXXXXXXXXXXX	5 - 167kVA	2 - 3000kVA
Three Phase	75-10,000	7,000 - 20,000	10 - 2,000	2 - 5,000
Frequency 50Hz or 60Hz	✓	✓	✓	✓ or special
Winding Conductor - Al. or Cu	✓	✓	COPPER	✓
Primary Voltage Range	2.4kV - 46kV	2.4 - 138kV	2.4 - 34.5kV	24V - 34.5kV
Secondary Voltage Range	120V - 15kV	120V - 34.5kV	120V - 600V	24V - 4.2kV
Insulation (liquid or air)	Mineral Oil	Mineral Oil	Mineral Oil	Ventilated Air
Circular Winding for Short Circuit and Motor Starting Strength / Disc or Barrel Winding	✓ Barrel	✓ Disc or Barrel	✓ Barrel	✓ Disc > 5kV
Spec. liquid or other	FR3, Silicone	FR3, Silicone	FR3, Silicone	Enclosed or Epoxy
Temp. Rise (A)	65C or 55/65C	65C or 55/65C	65C or 55/65C	150C
Optional Temp. Rise = Overload	55/65C = 12%	55/65C = 12%	55/65C = 12%	115C = 15% 80C = 30%
Taps - No-Load Taps - specify	✓	✓	✓	✓
2ea. 2.5% above & below nominal	✓	✓	✓	✓
Load Tap Changer opt. (voltage regulation)	✓	✓	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
Ambient - 30C Ave, 40C Max	✓	✓	✓	✓
Option: 40C Ave, 50C Max	✓	✓	✓	✓
Insulation System Temp	110C	110C	110C	220C
Bil - 600V - Standard (upgrade)	30kV (45)	30kV (45)	30kV (45)	10kV (30)
Bil - 5kV - Standard (upgrade)	60kV (75)	60kV (75)	60kV (75)	30kV (45)
Bil - 15kV - Standard (upgrade)	95kV (110)	95kV (110)	95kV (110)	60kV (95)
Bil - 25kV - Standard (upgrade)	125kV (150)	125kV (150)	125kV (150)	110kV (125)
Bil - 35kV - Standard (upgrade)	150kV (200)	150kV (200)	150kV	150kV (200 Cast coil)
Bil - 69kV - Standard	XXXXXXXXXXXX	350kV	XXXXXXXXXXXX	XXXXXXXXXXXX
Bil - 115kV - Standard	XXXXXXXXXXXX	550kV	XXXXXXXXXXXX	XXXXXXXXXXXX
Bil - 138kV - Standard	XXXXXXXXXXXX	650kV	XXXXXXXXXXXX	XXXXXXXXXXXX
Nema 1 Indoor	FR3 or Silicone	Special Liquid	Special Liquid	Ventilated
Nema 3R Outdoor	Standard	Standard		Add Rain Shield
Nema 4 or Nema 4X	Control Box only	Control Box only		Encapsulated or TENV Haz-pac
Class 1 Division 2 Group C & D - Liq. filled ok unless contacts added > special control box.	Nema 7 Control Box w/ contacts	Nema 7 Control Box w/ contacts	OK unless contacts are added	
SS - Substation - Bushings / connections to sides, except Dry type	Throat, Flange or Air Term Chamber	Throat, Flange or Air Term Chamber	XXXXXXXXXXXX	Top or in Air Term Chamber on side(s)
PM - Pad Mount - Tamper resistant - Bushings Front enclosed w/doors & barrier	Live Front or Dead Front	Substation or Station only	Live Front or Dead Front	Live Front or Dead Front
SS - Station Type - Bushings Top mounted	HV Top, LV Top	HV Top, LV Top	XXXXXXXXXXXX	XXXXXXXXXXXX
General Purpose - Air Ventilated	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	Bus connection - bottom compartment
Encapsulated - Dry type Epoxy filled - Leads or Bus connection - top or bottom	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	Available in Nema 3R or 4X
Options: FA Fan Rating - additional kVA %	+15% to 2500, 25% to 10MVA, 33% above	+15% to 2500, 25% to 10MVA, 33% above	XXXXXXXXXXXX	33%
Primary Switch Optional	In oil	In oil	In oil	Load Interrupter
Fused Primary Optional	Bayonett, CL, other	Bayonett, CL, other	Bayonett, CL, other	Switch with fuses

Optional: Gauges w/ contacts, RTD / Thermocouple, Neutral Ground Resistor (or provisions), Temperature monitor, Sudden pressure rise relay
 Many special options - Just ask.