



TRANSFORMATEURS_{LTEE}

PIONEER

TRANSFORMERS_{LTD}

AN ISO 9001 COMPANY

Three Phase Transformers

Pad-Mounts

WE MANUFACTURE THREE PHASE FULLY TAMPER PROOF PAD-MOUNTED TRANSFORMERS UP TO 10 MVA WITH TOP VOLTAGES OF 44kV VOLTAGE CLASS. THE UNITS CAN BE DESIGNED FOR RADIAL OR LOOP-FEED APPLICATIONS, IN LIVE-FRONT OR DEAD-FRONT EXECUTION. WHEN FUSES ARE REQUIRED WE PROVIDE A HINGED HATCH ABOVE THE FUSES TO REDUCE THE TANK HEIGHT TO A MINIMUM. ALL UNITS COMPLY WITH CSA-C227 AND ANSI C57. THE FOLLOWING OPTIONS ARE AVAILABLE:

- DRAW-OUT EXPULSION FUSES
- FULL RANGE OF CURRENT LIMITING FUSES
- BAY-O-NET FUSES
- SINGLE OR TWO FUSE SYSTEMS
- LOAD BREAK HV BUSHING INSERTS
- DUAL VOLTAGE SWITCH
- TAP SWITCH
- LOAD BREAK SWITCH/SWITCHES
- VARIOUS GAUGES
- 55/65° C TEMPERATURE RISE
- SILICONE, R-TEMP OR ENVIROTEMP FR3
- STAINLESS STEEL CABINET, TANK AND RADIATORS



*1500KVA Dead Front Radial Feed
3 phase Pad-Mounted 24.9kVGY/14.4 kV - 600Y/347V*

Small Power Transformers

WE OFFER A FULL RANGE OF SMALL POWER TRANSFORMERS FOR THE UTILITY AND INDUSTRIAL/COMMERCIAL MARKET FROM 250KVA SINGLE PHASE THROUGH TO 10 MVA THREE PHASE WITH TOP VOLTAGE OF 44kV. THE UNITS CAN BE SUPPLIED WITH TOP OR WALL MOUNTED BUSHINGS OR WITH THROATS OR JUNCTION BOXES. THESE UNITS COMPLY WITH CSA C2, CSA C88 AND ANSI C57. TYPICAL OPTIONS AND ACCESSORIES ARE:

- TAP CHANGER FOR DE-ENERGIZED OPERATION
- ON-LOAD TAP CHANGERS
- MULTIPLE VOLTAGE ARRANGEMENTS
- FAN COOLING OR PROVISION FOR FAN COOLING
- CURRENT TRANSFORMERS
- NEUTRAL GROUNDING RESISTOR
- EXTERNAL CORE GROUND
- SPECIAL PRESSURE RELIEF DEVICES
- LIGHTNING ARRESTERS
- 55/65° C TEMPERATURE RISE
- SILICONE, R-TEMP OR ENVIROTEMP FR3
- STAINLESS STEEL TANK AND RADIATORS



*2 MVA 13.8kV8-600Y/347V
3 phase Small Power*

Specialty Transformers

Network Transformers

PIONEER TRANSFORMERS MANUFACTURES SUBWAY AND VAULT-TYPE NETWORK TRANSFORMERS UP TO 3000 KVA AS PER ANSI STANDARD C57.12.40 AND CSA C199.

FIFTY YEARS OF CORE AND COIL DESIGN RESULT IN A STRONG, RIGIDLY BRACED UNIT THAT WILL WITHSTAND THE MOST SEVERE SHORT CIRCUIT CONDITIONS.

THE HIGH-VOLTAGE TERMINAL CHAMBER, WHICH IS SEPARATE FROM THE TRANSFORMER TANK, ALLOWS A VARIETY OF HIGH-VOLTAGE CABLE TERMINATIONS LIKE: WIPING SLEEVES, STUFFING BOXES, POT HEADS AND APPARATUS BUSHINGS.

THE HIGH-VOLTAGE SWITCH CHAMBER, WHICH IS ALSO SEPARATE FROM THE TRANSFORMER TANK, CONTAINS A THREE-POLE, TWO-POSITION OR THREE-POSITION SWITCH. THE SWITCH CAN BE OF THE "MAG-BREAK " TYPE FOR FAST INTERRUPTION OF THE EXCITING CURRENT.

A VARIETY OF ACCESSORIES ARE AVAILABLE IN ORDER TO MATCH CUSTOMER SPECIFICATIONS.



*750 KVA 13.8kV8-208Y/120V
Network Transformer*

Unitized Pad-Mounts

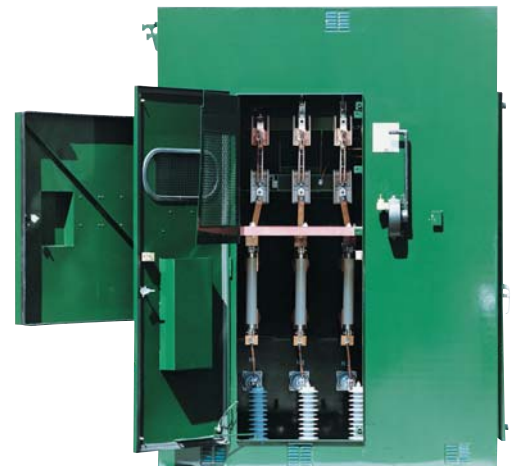
PIONEER TRANSFORMERS MANUFACTURE LOW PROFILE, TAMPER PROOF, TOTALLY INTEGRATED PAD-MOUNTED MINI SUB-STATIONS, CALLED UNITIZED PAD-MOUNTS. THESE UNITS ARE USED AT COMMERCIAL SITES SUCH AS APARTMENT COMPLEXES, SHOPPING CENTERS, OFFICE COMPLEXES, INDUSTRIAL PARKS, FACTORIES, AIRPORTS, HOSPITALS, SCHOOLS, MILITARY INSTALLATIONS ETC. THE UNITS HAVE AN ESTHETIC APPEARANCE AND AVOID THE NECESSITY OF FENCES AND OVER-HEAD ELECTRICAL STRUCTURES.

GENERALLY, ANY END USER BUYING POWER AT THE PRIMARY VOLTAGE LEVEL OR OWNING AND OPERATING THEIR OWN HV DISTRIBUTION SYSTEM SHOULD CONSIDER UNITIZED PAD MOUNTS. THIS DESIGN ELIMINATES HOT STICKS SO THAT NON-UTILITY PERSONNEL CAN SWITCH OFF THE UNIT. INSIDE THE COMPARTMENT AN EXTERNAL LOAD BREAK SWITCH ON THE HV SIDE CAN BE CHECKED THROUGH A VIEWING WINDOW TO SEE IF THE BLADES ARE IN THE OPEN OR CLOSED POSITION. A MECHANICAL INTERLOCK SYSTEM PREVENTS ACCESS TO THE FUSE COMPARTMENT UNLESS THE LOAD BREAK SWITCH IS IN THE OPEN POSITION. SIZES ARE AS FOLLOWS:

5kV CLASS	60kV BIL	UP TO 3MVA
15kV CLASS	95kV BIL	UP TO 5MVA
25kV CLASS	125 & 150kV BIL	UP TO 5MVA
27.6kV CLASS	150kV BIL	UP TO 5MVA
34.5kV CLASS	150kV BIL	UP TO 5MVA

THE UNITS CONFORM WITH CSA, ANSI OR EEMAC APPLICABLE STANDARDS. WE CAN PROVIDE:

- FUSED OR UNFUSED LOAD BREAK SWITCH ON HV SIDE
- SECONDARY METERING COMPARTMENTS
- LV DISTRIBUTION CENTER (FUSIBLE SWITCHES, ENCLOSED CB, METERING)
- SHUNT TRIP COIL
- LIGHTNING ARRESTERS
- KEY INTERLOCKS
- VARIOUS GAUGES
- SILICONE, R-TEMP OR ENVIROTEMP FR3
- 55/65° C TEMPERATURE RISE



*1500 KVA 25kV8-600Y/347V
Unitized Pad-Mount*



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