



**First Philec**

**FIRST PHILEC INC.** is the pioneer and leader in transformer solutions in the Philippines. It has been the preferred solutions provider to the country's power utilities, commercial and industrial businesses for more than 45 years. The company is also the largest manufacturer of amorphous transformers in Southeast Asia.

A member of the Lopez Group, FIRST PHILEC is the intermediate holding company of First Philippine Holdings Corporation (FPH) primarily for its manufacturing and technology-related investments. Through FIRST PHILEC, FPH intends to grow its investments in manufacturing to provide a more robust backbone to the country's economy—one that is founded on technological competitiveness and increased ability to add value to products and manufacturing services for the global market. FIRST PHILEC intends to achieve its growth by building on its core strength in operations excellence. With manufacturing as our core, we aim to engineer innovative industrial solutions.



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**PLANT ADDRESS**

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Three-Phase Compartmentalized Pad-mounted Transformers are used for underground distribution systems. These are designed both for indoor and outdoor installations, dead-front on a concrete or flat and robust surface. They are best suited for high-rise buildings, apartment buildings, shopping complexes, hospitals, schools, commercial buildings and industrial establishments.

The tank and cabinet construction is tamper-proof to eliminate the need for protective fencing or vaults. The standard rating ranges from 10 – 167 kVA for single phase and 75 through 3000 kVA for three-phase, with primary voltage ratings up to 34,500 V. A variety of transformer accessories can be made available upon request. Our designs conform to applicable standards of ANSI / IEEE and NEMA.

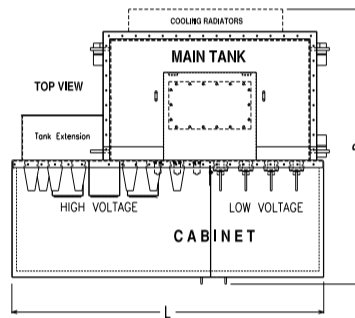
Our transformers are designed for normal electrical utility power distribution systems application conditions. These conform to the “usual service conditions” described in ANSI C57.12.00, General Requirements for Liquid-Immersed Distribution, Power and Regulating Transformers.



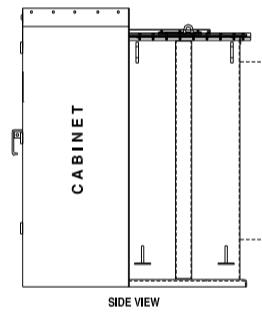
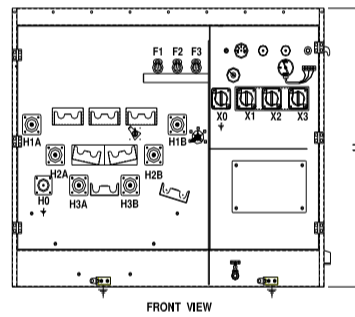
## STANDARD FEATURES

- Wound and rectangular core-coil construction
- Robust steel tank and cabinet assembly
- Bolted cover with manhole opening for internal access
- Panel radiator for additional heat dissipation
- Removable hood and sill for easy installation
- One-eighty degrees (180°) opening for HV and LV doors with padlocking provision and lifting handles for easy removal
- Hook rest to hold the doors in open position
- Three-point door latching with penta head bolt for secured door locking
- Bushing wells or one-piece integrated bushings
- Externally clamp porcelain/epoxy LV bushings
- Externally operated no-load tap changer
- Tap grounding pads
- Base down lugs for permanent anchor to pad
- Stainless steel nameplate
- Liquid level indicator
- Liquid temperature indicator
- Pressure test valve
- Pressure vacuum gauge
- Filling plug/oil level plug
- Pressure relief valve
- Drain valve with oil sampler

## PRODUCT OUTLINE



RATING, KVA	WEIGHT, KGS.	OVER ALL DIMENSIONS, mm		
		HEIGHT, H	DEPTH, D	LENGTH, L
75	2 620	1 885	1 560	2 320
150	2 660	1 885	1 560	2 320
300	3 530	1 885	1 560	2 320
500	3 610	1 885	1 760	2 320
750	4 180	1 885	1 730	2 320
1000	4 770	1 885	1 900	2 320
1500	5 850	2 030	2 240	2 320
2000	7 450	2 030	2 500	2 320
2500	7 920	2 100	2 700	2 320
3000	8 560	2 100	2 900	2 320



## STANDARD TESTS

### ROUTINE TESTS

- Transformer Turns Ratio (TTR) Test
- Winding Resistance Test
- Polarity and Phase Relation Test
- Insulation Power Factor Test (IPF)
- Liquid Insulation Power Factor Test
- Liquid Insulation Dielectric Breakdown Voltage (DBV) Test
- Open Circuit and Excitation Test
- Short Circuit and Impedance Voltage Test
- Applied Potential Test
- Induced Potential Test

### TYPE TESTS

- Temperature Rise Test
- Basic Impulse Level (BIL) Test

## OPTIONAL FEATURES

- Surge arresters (dead-front)
- Bayonet and dry-well mounted expulsion fuses
- Partial and full range oil-submersible current limiting fuses
- Two-position or four-position load-break gang operated sectionalizing switch
- Oil level, temperature, and pressure/vacuum gauges, etc.

# STANDARD RATINGS

# QUALITY ASSURANCE

CAPACITY	HIGH VOLTAGE RATING				
	kVA	34.5Grd.Y/ 19.92kV	13.2Grd.Y/ 7.6kV	34.5kV- Delta	13.8kV- Delta
75	240Y/139V	240/139V	-	-	-
150	240Y/139V	240/139V	-	-	-
300	240Y/139V	240/139V	-	-	-
500	240Y/139V	240/139V	-	-	-
	416Y/240V	416Y/240V	-	-	-
	480Y/277V	-	-	-	-
	400Y/230V	-	400Y/230V	400Y/230V	400Y/230V
	460Y/266V	-	460Y/266V	460Y/266V	460Y/266V
750	240Y/139V	240Y/139V	-	-	-
	416Y/240V	416Y/240V	-	-	-
	480Y/277V	480Y/277V	-	-	-
	400Y/230V	-	400Y/230V	400Y/230V	400Y/230V
	460Y/266V	-	460Y/266V	460Y/266V	460Y/266V
1000	240Y/139V	240Y/139V	-	-	-
	416Y/240V	416Y/240V	-	-	-
	480Y/277V	480Y/277V	-	-	-
	400Y/230V	-	400Y/230V	400Y/230V	400Y/230V
	460Y/266V	-	460Y/266V	460Y/266V	460Y/266V
1500	480Y/277V	480Y/277V	-	-	-
	400Y/230V	-	400Y/230V	400Y/230V	400Y/230V
	460Y/266V	-	460Y/266V	460Y/266V	460Y/266V
2000	240Y/139V	-	-	-	-
	480Y/277V	480Y/277V	-	-	-
	400Y/230V	-	400Y/230V	400Y/230V	400Y/230V
2500	460Y/266V	-	460Y/266V	460Y/266V	460Y/266V
	400Y/230V	-	400Y/230V	400Y/230V	400Y/230V
3000	460Y/266V	-	460Y/266V	460Y/266V	460Y/266V
	400Y/230V	-	400Y/230V	400Y/230V	400Y/230V

LOW VOLTAGE RATING

**Quality assurance is an integral part of the process here at First Philec.**

Raw materials are inspected and tested thoroughly before acceptance. Quality of processed parts and sub-assemblies are closely monitored by our production team. We conduct quality inspections and spot checking regularly to ensure that excellence and consistency of quality are achieved and maintained.



COMPARTMENTALIZED PADMOUNTED TRANSFORMERS

# GENERAL SPECIFICATIONS

<b>kVA RATINGS</b>	75 kVA – 3,000 kVA
<b>NUMBER OF PHASES</b>	Three Phase, Single Phase ( <i>special</i> )
<b>INSULATION</b>	Dielectric Fluid Immersed Self-Cooled
<b>FLUID</b>	Dielectric Fluid or Environment-Friendly High Fire Point Fluid
<b>WINDING MATERIALS</b>	Copper-Aluminum (Cu-Al), Copper-Copper (Cu-Cu) ( <i>special</i> )
<b>CORE MATERIALS</b>	Silicon Iron (SiFe)
<b>FREQUENCY</b>	60 Hz
<b>MOUNTING</b>	Padmounted
<b>VECTOR GROUPS</b>	Delta – Wye, Wye – Wye, Wye – Delta ( <i>special</i> )
<b>WINDING TEMPERATURE RISE</b>	65°C
<b>CONNECTION</b>	Loop Feed, Radial Feed ( <i>special</i> ) / Indoor or Outdoor
<b>APPLICABLE STANDARDS</b>	ANSI / IEEE, NEMA
<b>CONSTRUCTION</b>	Deadfront



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