



# TRANSFORMER TECHNICAL DATA SHEET

PEL - PAK ELEKTRON LIMITED - LAHORE

## Customer:

### General Specification

Rated Power [kVA]	<b>1000</b>	Vector Group	Dyn 11
Rated High Voltage [V]	11000	Connections [HV/LV]	Delta/Star
Rated Low Voltage [V]	400	No. of Terminals [HV/LV]	3/4
Number of Phases [ $\phi$ ]	3	HV Bushings position	Top plate
Insulation Class	A	LV Bushings position	Top plate
No. of HV Taps	5	Winding Material [HV/LV]	Copper/Copper
Taps [+%]	2.5,5.0	Service Altitude [m]	<1000
Taps [-%]	2.5,5.0	Transformer Type	Oil immersed/Seal type
Maximum Ambient Temp. [ $^{\circ}$ C]	45	Installation	Indoor/Outdoor
Temp. Rise (Oil/Winding) [K]	50/55	Oil Type	Mineral Oil (IEC 60296)
Type of Cooling	ONAN	Standard/Specs.	IEC 60076

### Technical Specifications

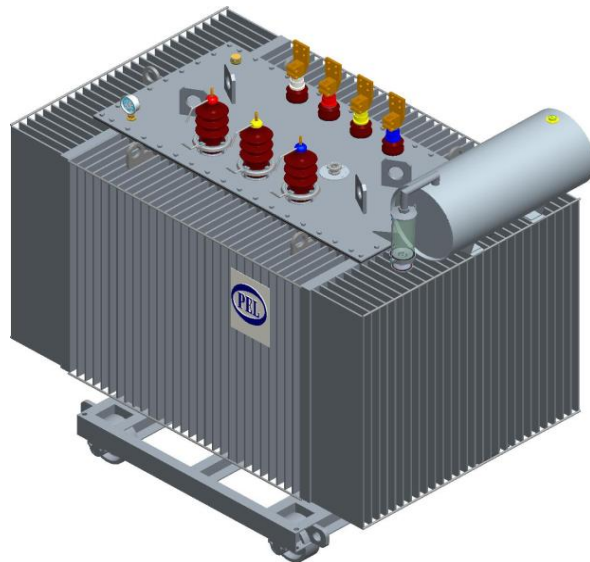
No-Load Loss [kW]	1.55	Basic Insulation	HV	LI 75	AC 28
Load Loss at Principal Tap [kW]	9.5	Level (BIL) [kV]	LV	LI --	AC 03
Impedance [%]	6.0	Regulation ( $\Delta$ V) at 1.0 PF & Rated Current	1.13%		
HV Line Current [A]	52.49	Regulation ( $\Delta$ V) at 0.8 PF & Rated Current	4.40%		
LV Line Current [A]	1443.38	Efficiency ( $\eta$ ) at 100% Load 1.0 PF	98.91%		
Frequency [Hz]	50	Efficiency ( $\eta$ ) at 50% Load 1.0 PF	99.22%		

### Mechanical Characteristics (Dimensions are approx. and subject to change at the time of approval)

L - Length [mm]	1680	Total Mass [kg]	4000
W - Width [mm]	1050	Tank Type	Corrugated Fin wall
H - Height [mm]	1850	Paint Colour	RAL 7033

### Transformer Accessories

- HV Porcelain Bushing with Arcing Horn
- LV Porcelain Bushing
- Off Circuit Tap Changer (OCTC)
- Earthing Terminals (SS)
- Lugs for lifting Complete Transformer
- Transport Pulling Eyes
- Rating & Diagram Plate(SS)
- Bi-Direction Roller Wheels
- Oil Filling Plug (at Top Cover)
- Oil Drain Valve with Oil sampling extension
- Oil Level Indicator (Top Cover Mounted)
- DGPT 2 Relay
- Pressure Safety Valve
- Thermometer Pocket



For Information Only

### Remarks:

Routine test shall be conducted as per IEC 60076 at PEL Testing Lab.  
Tolerances applicable as per IEC 60076.  
Transformer shall be designed for auxiliary load.

Prepared by:

Approved by:

Date:

Sheet 01/01

Rev: 0

