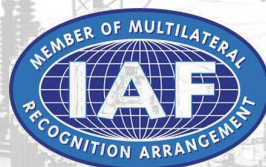




*Transparent Testing &
Simplified Measurement*

DVDF Test Bench SBE - DVDF SBE - DADF





CAPACITY UPTO - 50 MVA

KEY ITEMS FOR TRANSFORMER TEST BENCH

- Desk type CONTROL PANEL.
- Intermediate Auto Transformer.
- Motor Generator Set.
- Fully Automatic Starter.
- Three Phase Variable Auto Transformer.
- Digital Meters will be provided for all parameters.
- Automatic Tripping arrangement will be provided in all Individual Setup.
- Digital Timer is provided along with ON-OFF Switch to set the Testing Duration Time.

BRIEF SPECIFICATION

A complete common Test Bench to perform No Load Test (OC Test), Full Load Test (SC Test), Induced Over Voltage withstand Test (DVDF Test), High voltage test for LT & HT, To measure NO load & Full Load Losses, Efficiency, Impedance, Insulation and other Electrical parameters of 3-Phase Distribution and Power Transformer ranging from 16 KVA to 50 MVA rating along with 3-Phase intermediate Transformer of Suitable capacity, 3-Phase Motorized variable auto transformer of suitable capacity :- 440 Volts Input & 0-470 Volt output, Motor Generator set of Slip Ring Motor & Induction Motor along with suitable contactors, Panel meters & Required accessories.

Input	: 415 V, 3 Phase, 4 Wire, 50 Hz A.C
For DVDF Test	: 0 - 1000 V, 3 Ph. 100 Hz. At Four Different Taps.
Duty	: Intermittent



Testing Panel

For DVDF functionality, Control and the same Loading transformer unit along with the same variable motorized auto transformer are used.

(N.B. Generally, above 1 MVA, there comes into place an additional 3rd unit in the form of variable auto transformer. Above 3 MVA, the Loading Transformer comes into place as an additional 4th unit).

The inclined front panel has indicating lamps, HRC fuses, push buttons, mode changing rotary switches, voltmeter selector rotary switches, digital frequency meter (for DVDF) along with its toggle switch to indicate Input/output frequency and these are all part of ' Control unit'. 1 no. Digital voltmeter of 96 sq.mm. is provided for Input voltage measurement and 1 no. Digital AC voltmeter of 96 sq.mm. for measuring the Output voltage. Besides these, 3 individual Digital ammeters of 96 sq.mm. are also connected to 3 different phases for measuring Output currents in the respective phases and all these meters are for DVDF purpose.

Mounted inside are current measuring CT's, voltage measuring P.T's (for DVDF purpose), contactors, automatic star-delta starters (for DVDF) , loading transformer, variable auto transformer (if rating is above 1 MVA, the auto transformer will be treated as a separate unit as previously mentioned in nota-bene.)

4 nos. casting wheels at the bottom of powder coated sturdy steel cabinet is provided for easy mobility. 4 nos. lifting hooks are also there for lifting purpose. All nomenclatures are engraved in anodized aluminum plates which are placed on the inclined front panel.

Intermediate Booster Transformer

One Three Phase Intermediate Booster Transformer of Intermittent Rating is used to boost the Motor Generator Output Voltage to the desired voltage level for applying in the Transformer Under Test.

Three phase Booster Transformer is used to give a Long Lasting Life Cycle to the Motor-Generator Set. High Quality Copper is used for winding of the Three Phase Intermediate Booster Transformer.

Input	: 415 V, 3 Phase, 4 Wire, 50 Hz A.C
For DVDF Test	: 0 - 1000 V, 3 Ph. 100 Hz. At Four Different Taps.
Duty	: Intermittent
Cooling	: Air Natural Cooled



Variable Auto Transformer

THREE PHASE VARIABLE AUTO TRANSFORMER is used to vary the Output Voltage continuously.

SALIENT FEATURES :-

1. The drop in Voltage from "No Load to Full Load" is minimal.
2. Careful Copper & Core selection and design assures the user of low watt loss, as compare to other controllers.
3. It provides an output voltage waveform, which is a distortion-less replica of the input voltage waveform.
4. A special Silver Plating Technique is used on the Commutator, enabling it to withstand high overloads and maintain Proper contact . It also ensures smooth operation, long life & increased resistance to corrosion.
5. A Glass smooth commutator, special sintered bushing for the shaft and perfect assembling of coils results in low operating torque for all Variable Auto Transformer.

Input	: 440 V, 3 Phase-4 Wire, 50 Hz, AC
Output	: 0 - 470 V, 3 Phase, 50 Hz, AC
Capacity	: As per system requirement.
Cooling	: Air Natural Cooled / Oil Cooled



Oil Cooled Closed Type



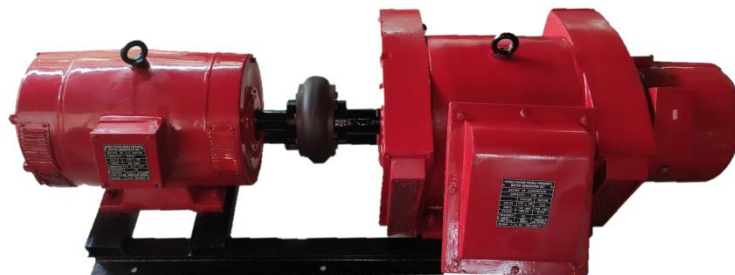
Air Cooled Open Type

Motor Generator Set

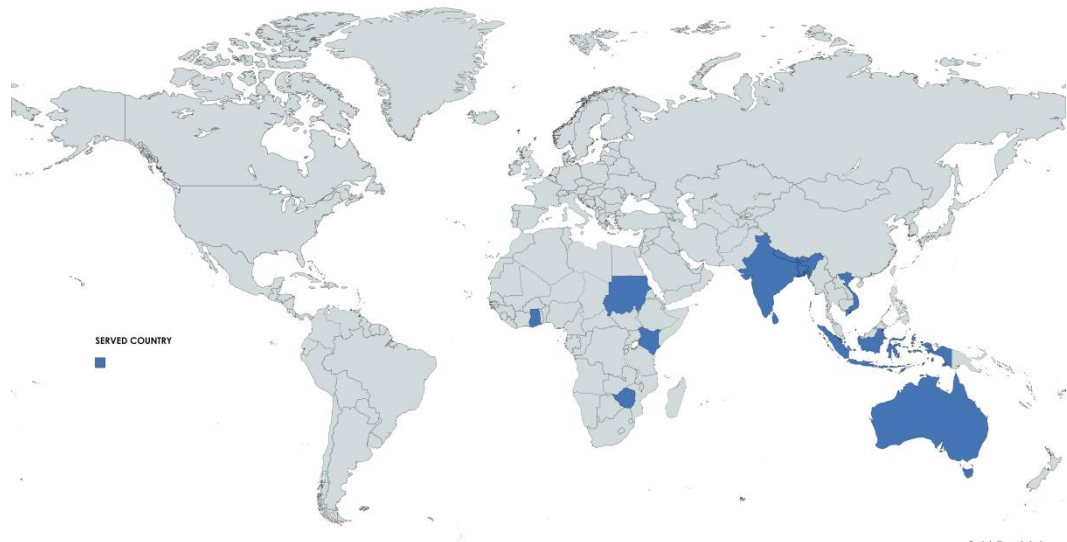
THREE PHASE MOTOR GENERATOR SET is used in TRANSFORMER TEST BENCH to perform Induced Over Voltage Test (Double Voltage Double Frequency Test). MOTOR GENERATOR SET is a combination of Three Phase Slip Ring Motor & Three Phase Induction Motor. It provides Variable Output Voltage at Double Frequency.

- Input : 415 V Three Phase, 50 Hz through Fully Automatic Starter.
- For Squirrel Cage Motor UPTO 300 HP
- For Slip-Ring Motor UPTO 600 HP

*Motor will be in Old Casing, Newly Winded & Heat Varnished to reduce the Voltage & give a Long Lasting Life time. Two Motors are Coupled with each other on a MS Channel Frame.



OUR PRODUCT IS SERVING THROUGHOUT THE GLOBE



CONNECT WITH US :



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Simplified Measurement*

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