## 3PHASE PHANTOM LOADING KIT

## Technical Specification:

| Type | $:$ Continuously Variable Type |
| :--- | :--- |
| Model No. | $:$ SR-VPF-320/10-3P |
| Input | $: 415 \mathrm{~V} \mathrm{AC} \pm 10 \%, 50 \mathrm{~Hz}, 3 \mathrm{P} 4 \mathrm{~W}$ or $3 P 3 W$ |
| Capacity | $: 450 \mathrm{VA}$ in Total |

Application : To test and calibrate 3P 4W, 3P 3W and 1P 2W Active, Reactive, and Apparent Power Energy Meter, Voltmeter, Ammeter, PF Meter.

Salient Feature : 1. Variable 3P Output Voltage ( $0-320 \mathrm{~V}$ AC, P-N ).
2. Variable 3P Output Current ( $0-10.0 \mathrm{~A} A C$ per Phase ).
3. Variable Phase Angle in all 3 Phases $\left(0^{\circ}-360^{\circ}\right)$.
4. Voltage Selection (110V AC / 220VAC(P-N) with Off)
5. Current Selection ( 1A AC /10A AC per Phase with Off )
6. Current Forward / Reverse Selection

## Voltage Output:

Voltage Range : 0-320V AC per Phase ( $\mathrm{P}-\mathrm{N}$ )
Range Selection : 110V / 220V / Off
110V Range : 0-150V AC
220V Range : 0-320V AC
Burden : 100VA per phase
Volt Adjustment : By a manual Variac in each phase

## Current Output:

Current Range :0-10.0A AC per Phase
Range Selection :1.0A / 5.0A /Off
1.0A Range $\quad: 0-1.5 \mathrm{~A} \mathrm{AC}$
5.0A Range : 0-10.0A AC

Burden :50VA per phase
Amp Adjustment : By a manual Variac in each phase

## Phase Angle :

Phase Angle : 2 Nos. of Selector Switches is provided to change Phase Angle of 3 Phases at the same time as follows.

1. Coarse Selection $(X, Y, Z)$ : Using this Switch, Phase Angleranges $X=0^{\circ}-120^{\circ}, Y=121^{\circ}-240^{\circ}$, $Z=241^{\circ}-360^{\circ}$ are selectable.
2. Fine Selection(A,B,C,D) : Using this Switch, Phase Angles will be selected in 4 ranges within the range selected by Coarse Selection Switch. For example, if $X=0^{\circ}-120^{\circ}$ is selected by Coarse Selection, by Fine Selection $A=0^{\circ}-30^{\circ}, B=30^{\circ}-60^{\circ}, C$ $=60^{\circ}-90^{\circ}$ and $D=90^{\circ}-120^{\circ}$ ranges will be selected.

Phase Angle will be continuously adjustable by a Manual Variac in each phase for $30^{\circ}$ in the range selected by Fine Selector Switch.

## Phase Angle Selection Table:

| Fine | A <br> Coarse | B <br> Phase Angle | C <br> Phase Angle | D <br> Phase Angle |
| :---: | :---: | :---: | :---: | :---: |
| Phase Angle |  |  |  |  |$|$

## Power Factor:

Range : Measurement of Power Factor range will be -ZPF to Unity to +ZPF

Forward / Reverse : Forward / Reverse selection Switch is provided for Output Currents.

Protection : Glass Fuse is provided for Input Power, Voltage Outputs and Current Outputs.

| Meter | : 1 No. Multi Function Meter is provided for the indications of 3P Voltages, 3P Currents, Power Factor and Phase Angle. |
| :---: | :---: |
| Terminals | : For 3P Voltage Outputs R, Y, B, N terminals are provided. For 3P Current Outputs R1-R2, Y1-Y2, B1-B2 terminals are provided. |
| Input Cable | : Suitable 4 Core ( 2 mts ) input power cable of suitable size will be provided. |
| Output Cable | : Not in our scope of supply. |
| Enclosure | : Two types of enclosures will be provided. |
|  | 1. Table Top Model <br> 2. Portable Type ( Box Type ) |
|  | Customer should mention the type while ordering. |
| Test Certificate | : In-house Test Certificate will be provided along with Kit. |
| Guarantee | : Guarantee Certificate for 12 Months from the date of Supply will be provided along with Kit. |
| Manual | : Detailed instruction manual will be supplied along with Kit. |
| Spares | : One set of spare fuses will be supplied along with Kit. |

