

3PHASE- PHASE SHIFTER

Technical Specification:

Type	: Continuously Variable Type
Model No.	: SR-PS-250-3P
Input Capacity	: 415V AC \pm 10%, 50Hz, 3P 4W or 3P 3W
Capacity	: 300VA in Total
Application	: Phase Shifted voltages are used to test Synchronizing Relays, synchronizer
Salient Feature	: 1. Variable 3P Output Voltage (0 – 250V AC, P-N) 2. Variable Phase Angle in all 3 Phases (0° - 360°) with reference to supply Voltages. 3. Voltage Selection (110V AC / 220VAC(P-N) with Off)

Voltage Output:

Voltage Range	: 0 – 250V AC per Phase (P-N)
Range Selection	: 110V / 220V / Off
110V Range	: 0 – 125V AC
220V Range	: 0 – 250V AC
Burden	: 100VA per phase
Volt 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 Angle ranges X = 0° - 120° , Y = 121° - 240° , Z = 241° - 360° 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° - 120° is selected by Coarse Selection, by **Fine Selection** A = 0° - 30° , B = 30° - 60° , 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 per phase for 30° in the range selected by **Fine Selector** Switch.

Phase Angle Selection Table :

Fine	A	B	C	D
Coarse	Phase Angle	Phase Angle	Phase Angle	Phase Angle
X= $0^{\circ} - 120^{\circ}$	$0^{\circ} - 30^{\circ}$	$30^{\circ} - 60^{\circ}$	$60^{\circ} - 90^{\circ}$	$90^{\circ} - 120^{\circ}$
Y= $121^{\circ} - 240^{\circ}$	$120^{\circ} - 150^{\circ}$	$150^{\circ} - 180^{\circ}$	$180^{\circ} - 210^{\circ}$	$210^{\circ} - 240^{\circ}$
Z= $241^{\circ} - 360^{\circ}$	$240^{\circ} - 270^{\circ}$	$270^{\circ} - 300^{\circ}$	$300^{\circ} - 330^{\circ}$	$330^{\circ} - 0^{\circ}$

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

Meter : 1 No. Multi Function Meter is provided for the indications of 3P Voltages, Phase Angle.

Terminals : For 3P Voltage Outputs R, Y, B, N terminals are provided.

Input Cable : Suitable 4 Core (2mts) 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
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.