



**Excellent Quality Exceptional Support**



**Servo Stabilizer**



# Servo Stabilizer - Oil Cooled



## HIGH RELIABILITY

- All components sourced from reputed manufacturers, with confirmation to International standards as minimum prerequisite.
- 100% raw material and components inspection is done as per inward inspection manual. Individual assemblies and sub-assemblies also tested separately for higher reliability.
- Final equipment is tested for accelerated life test to identify and replace any weak links at QA.
- All electronic assemblies are tested on full load at 55° C in a oven for 48 hours to minimize failures.

## SALIENT FEATURES:

- ◆ Uses solid state control circuits, no relays, no warm-up time, for high reliability.
- ◆ Every unit is 'soak tested' for 48 hours to ensure trouble free operation.
- ◆ Quick response time 10 milli sec (half a cycle).
- ◆ Synchronous motor drive for high reliability.
- ◆ All transformers are copper-wound on CR laminations and double vacuum impregnated for high efficiency, low losses and low temperature rise and to withstand for all climatic conditions.
- ◆ Excellent regulation as high as +/- 0.5%.
- ◆ Professional grade ICs and components are used for high reliability.
- ◆ Introduces zero wave-form distortion.
- ◆ Plug-in type fibreglass PCBs with gold-plated fingers for better contacts to ensure excellent reliability and minimum down-time.
- ◆ Unaffected by load power factor.
- ◆ Ruggedised construction.
- ◆ Very high efficiency above 98 %.
- ◆ Very low No Load losses.



# Servo Stabilizer - Air Cooled

## GENERAL SPECIFICATIONS

Input Voltage Range	: 300 - 460V AC 3 Ph 50Hz/60Hz Phase to Phase
Other Input Ranges	: 320 - 460V AC / 340 - 480V AC 360 - 460V AC & 340-500V 3Ph 50Hz/60Hz
Output Voltage ( 3 Ph )	: 400V AC / 415V AC
Output Voltage (1 Ph )	: 230V AC / 240V AC
System	: Unbalanced 4 wire: R Y B N
Connections	: Star
Operating Frequency	: 47 to 53 Hz / 55 to 66 Hz
Output Voltage Adjustable	: 380 to 415V AC in 3 Ph 220 to 240V AC in 1 Ph
Output Voltage Regulation	: + 1% (No Load)
Output Voltage Regulation	: + 1% (Full Load)
Overload Capacity	: 120%
Correction Rate	: 35V/Sec-1 Ph; 60V/Sec-3 Ph 110 V/Sec with DC Motor
Waveform Distortion	: Nil
Output Waveform	: True Reproduction of Input
Insulation	: Class "B"
Short Circuit period & Percentage	: 300% for 250 Milli Sec.
Normal Operation Temperature	: 0° C to 45° C
Climate Conditions	: 90% Rh Max.Non Condensing at 35° C
Type of Cooling	: Natural air cooled upto 150KVA
Mode of System	: Fully automatic / manual
System Construction	: As Per IS:9815 - 1994

### PROTECTIONS

Low voltage protection  
High voltage protection  
Overload protection with MCB / MCCB  
Short Circuit Protection  
Single phasing preventer

### PANEL CONTROLS

Input / output select switch  
Auto / Manual select switch  
Increase / decrease switch to control the output voltage in manual mode  
Volts adjust to set required output voltage in auto mode

### PANEL INDICATIONS

Input - On                      Output - On  
Input - Low                    Input - High  
Output - Cutoff

### PANEL METERS

Voltmeter with Selector Switch to read Input / Output voltages  
Ammeter with Selector Switch (From 15 KVA 3 Ph onwards)

### INPUT / OUTPUT CONNECTIONS

Separate cable entry box is provided.

## OPTIONAL ACCESSORIES IN 3 Ph

Input under / Over voltage tripp  
Output sensing under / over voltage alarm  
Digital voltmeter / ammeter  
Frequency meter (digital / analog)  
Frequency tripp high / low adjustable (with setting thumb wheel switch)  
MCB / MCCB for output  
Dimmer protection arrangement  
Phase reversal protection

## PHYSICAL DIMENSIONS

Capacity	L	D	H	Wt.(Kgs)
3KVA-3Ph	495	375	500	65
6KVA-3Ph	495	375	500	75
10KVA-3Ph	470	470	1050	85
12KVA-3Ph	470	470	1050	90
15KVA-3Ph	470	520	1200	140
20KVA-3Ph	470	520	1200	165
22.5KVA-3Ph	540	520	1350	180
25KVA-3Ph	540	520	1350	190
30KVA-3Ph	540	520	1350	200
40KVA-3Ph	540	520	1350	240
50KVA-3Ph	640	620	1400	270
60KVA-3Ph	640	620	1450	290
75KVA-3Ph	640	620	1450	320
80KVA-3Ph	1400	550	1250	440
90KVA-3Ph	1400	550	1250	460
100KVA-3Ph	1480	600	1300	480
125KVA-3Ph	1480	600	1300	520
150KVA-3Ph	1480	600	1350	560

Above 150 KVA & upto 2000 KVA dimensions will be given on request

## APPLICATIONS

- CNC Machines
- Bio Medical Equipments
- Printing Machineries
- Large Computer Installations
- Telecommunication Equipments
- Scientific Equipments
- Textile Machineries
- Cell Phone Networks
- Garment Equipments and many more.



SERVOMAX INDIA LIMITED. ( Formerly Servomax Precious Electronics Pvt. Ltd.) established in the year 1982 at Hyderabad India, engaged in R&D and manufacturing of wide range of quality power conditioning and power saving equipments with advanced technology.

SERVOMAX brand is today synonymous with quality, reliability and service... being our main focus that have earned immense confidence and total satisfaction of more than 10,000 customers to whom we have catered through our 22 offices in India and abroad.

Our dedicated R&D team helps in constantly upgrading of equipments, technologies, features and providing new concepts both in design and manufacturing to ensure high safety and reliability.

SERVOMAX INDIA LIMITED. has a formidable client-list with customers spanning the length and breadth of the country and internationally, not surprisingly, because with SERVOMAX it is always the latest and the best.

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