

Three Phase & Single Phase Servo Controlled Voltage

Stabilizers

- 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.

VOLTAGE STABILIZER

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 : $\pm 1\%$ (No Load)

Output Voltage Regulation : $\pm 1\%$ (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
: 35C

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 lover 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	0	H	Wt.(Kgs)
3KVA -3Ph	495	375	500	65
6KVA-3Ph	495	375	500	75
10KVA-3Ph	470	470	1050	85
12KVN3Ph	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

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.

AIR COOLED THREE PHASE SERVO VOLTAGE STABILIZER

SPECIFICATION

- RATING: AS SPECIFIED
- INPUT VOLTAGE RANGE: AS SPECIFIED (Eg. 300V TO 470 V;4 WIRE,50Hz,UNBALANCE)

- INPUT SUPPLY FREQUENCY: 45Hz TO 55Hz
- OUTPUT VOLTAGE: AS SPECIFIED (Eg. 400V /415 V \pm 1%, 4 WIRE, 50 Hz, BALANCE)
- VOLTAGE REGULATION: \pm 1%
- RATE OF CORRECTION: USUALLY 25V / SEC/ PHASE BUT DEPENDS ON RATING
- EFFICIENCY: BETTER THAN 97%
- WAVEFORM DISTORTION: NIL
- EFFECT OF LOAD POWER FACTOR: NIL
- AMBIENT TEMPERATURE: 0-50°C Max.
- TYPE: 3 PHASE

FEATURES

- OUTPUT VOLTAGE SENSING FOR VOLTAGE CORRECTION & FOR L/V & H/V TRIP
- HIGHVOLTAGE & LOWVOLTAGE TRIP BY MEANS OF CONTACTOR / RELAYS
- VOLTMETER WITH SELECTOR SWITCH TO SEE INPUT & OUTPUT VOLTAGES
- SHORT CIRCUIT & OVERLOAD PROTECTION BY MEANS OF MCB / MCCB/SFU
- ADJUSTMENT: OUTPUT VOLTAGES ADJUSTMENT OF \pm 5V PER PHASE Will BE PROVIDED BY MEANS OF POTENTIO METER ON FRONT PLATE
- CONTROLS: AUTO/ MANUAL INCASE OF AUTO MODE FAILURE YOU CAN SET OUTPUT VOLTAGE THROUGH MANUAL MODE
- BUILT IN SINGLE PHASE PREVENTER

OPTIONAL FEATURES

- BY PASS FACILITIES
- RFI FILTER & SPIKE SUPPRESSOR
- GENERATOR COMPATIBLE CIRCUIT
- TIME DELAY CIRCUIT: OUTPUT POWER ON WITH SPECIFIED TIME DELAY
- ISOLATION TRANSFORMER /ULTRA ISOLATION TRANSFORMER AT OUTPUT
- AMMETER: TO SEE LOAD CURRENT'S
- DIGITAL VOLTMETER & DIGITAL AMMETER

3 ϕ SCVS(BOTH AIR COOLED & OIL COOLED)
 MODELS AVAILABLE FROM 3kVA3 ϕ TO 2000 kVA3 ϕ
 APPROXIMATE DIMENSIONS OF 3 ϕ STABILIZERS

INDICATIONS EACH PHASE SEPARATE

MAINS OK
 OUTPUT OK
 MAINS HIGH
 MAINS LOW
 OUTPUT CUT / DELAY
 OVER LOAD
 SINGLE PHASING PREVENTER

Single Phase Servo Controlled Voltage Stabilizer

Frequent fluctuations or variation of power not only causes financial.

loss but manpower loss too! SERVO CONTROLLED VOLTAGE .

STABILIZERS beats these happenings and provides all extra care needed to your valuable equipments.

SPECIFICATION

- RATING: AS SPECIFIED
- INPUT VOLTAGE RANGE: AS SPECIFIED (Eg. 170V-270 V)
- INPUT SUPPLY FREQUENCY: 45Hz-55Hz
- OUTPUT VOLTAGE: AS SPECIFIED (Eg. 230V /240V \pm 1%)
- VOLTAGE REGULATION: \pm 1%
- RATE OF CORRECTION: USUALLY 25V / SEC/PHASE BUT DEPENDS ON RATING
- EFFICIENCY: BETTER THAN 97%
- WAVEFORM DISTORTION: NIL
- EFFECT OF LOAD POWER FACTOR: NIL
- AMBIENT TEMPERATURE: 0- 50.C Max.
- TYPE: 1PHASE

FEATURES

- OUTPUT VOLTAGE SENSING FOR VOLTAGE CORRECTION & FOR L/V & H/VTRIP
- OVERVOLTAGE & UNDERVOLTAGE TRIP BY MEANS OF CONTACTOR/ RELAY'S
- VOLTMETER WITH SELECTOR SWITCH TO SEE INPUT & OUTPUT VOLTAGES
- SHORT CIRCUIT & OVERLOAD PROTECTION BY MEANS OF MCB / FUSE/MCCB
- ADJUSTMENT: OUTPUT VOLTAGES ADJUSTMENT OF \pm 5V /PHASE
WILL BE PROVIDED BY MEANS OF POTENTIAL METER ON FRONT PLATE
- CONTROLS: AUTO/MANUAL IN CASE OF AUTO MODE FAILURE YOU CAN SET OUTPUT VOLTAGE THROUGH MANUAL MODE.

OPTIONAL FEATURES

- BY PASS FACILITIES
- RFI FILTER & SPIKE SUPPRESSOR
- GENERATOR COMPATIBLE CIRCUIT
- TIME DELAY CIRCUIT: OUTPUT POWER ON WITH SPECIFIED TIME DELAY
- ISOLATION TRANSFORMER /ULTRA ISOLATION TRANSFORMER AT OUTPUT
- AMMETER: TO SEE LOAD CURRENT'S
- DIGITAL VOLTMETER & DIGITAL AMMETER

INDICATIONS

MAINS OK

OUTPUT OK

MAINS HIGH

MAINS LOW

OUTPUT CUT / DELAY

OVER LOAD

