

VERTEX



Innovation, Quality & Service.. Par Excellence

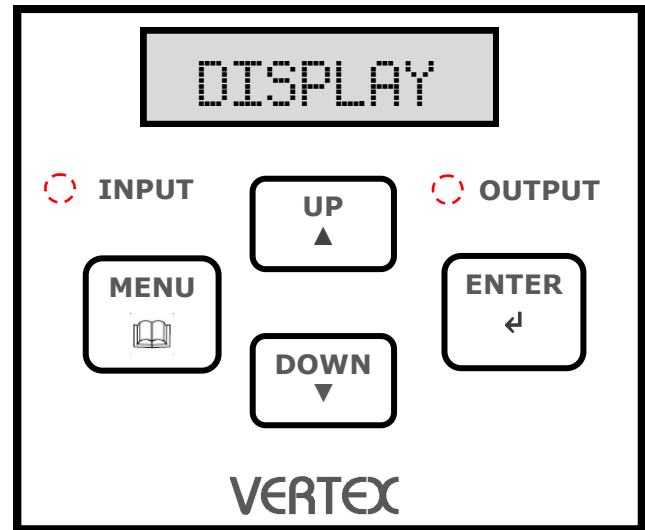


Solutions In Power Conditioning

SERVO STABILISERS THREE PHASE AIRCOOLED 3 kVA – 150 kVA



DISPLAY - THREE PHASE STABILISER 2ND-GEN-IN SYSTEM



VERTEX n6
XXX KVA CIT38799

START DELAY 010
OP 415 415 415 V

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FREQUENCY 51 Hz

OP 241 242 240 V
OP 415 416 415 V

IP 220 265 252 V
IP 423 409 448 V

PRESS ▲ KEY TO STOP SCROLL OR PAGE CHANGE / PRESS ▼ KEY FOR AUTO SCROLL

Three Phase Aircooled Stabilisers consists of three single phase units connected in star. The voltage sensing & correction is done in each phase independently with respect to the neutral, also called as unbalanced type voltage stabilisers.

VERTEX Stabiliser uses a Microcontroller (DSP) control system to provide a steady voltage and also protects the machinery from under/over voltage, overload, single phasing and phase reversal conditions.

SALIENT FEATURES:

- ◆ Microcontroller (DSP) Based Control System
- ◆ True RMS voltage sensing & correction
- ◆ LCD Displays – I/P & O/P Voltages (L-N & L-L), Output Current (R/Y/B) & Frequency
- ◆ User adjustable setting of O/P Voltage, High/Low cut-off limits & Manual / Auto Restart time delay, with great accuracy
- ◆ Higher response time through its Microcontroller design
- ◆ Cut-off protection with graded time delay

APPLICATIONS:

- Textiles, Spinning, Garment, Knitting, Dyeing
- Machine Tools, Robotics, Fabrication, Wood cutting, Granite
- Food Processing, Packaging, Printing Press, Agro / Rubber / Leather Industries
- Hospitals, Pharmaceuticals, Testing Labs,
- Office / Commercial Estab/ UPS Bypass, Centralised AC, Lifts, Lighting
- Mobile Towers, Petrol Pumps, Residential (Villas), Showrooms, Solar Plant

SPECIFICATIONS— THREE PHASE STABILISER

Type of Stabiliser	Three Phase Stabiliser - Unbalanced Type
Construction	Indoor Purpose
Type of Design	Servo Stabiliser with O/P sensing feed-back system
Type Of Cooling	Aircooled
Servo Motor Type	A.C. Synchronous Stepper Motor
Input Voltage Range	360V - 460V / 340V - 460V / 340V - 480V / 310V - 480V Designed as per customer requirement
Input Frequency	47 Hz - 53 Hz
Output Voltage	415 V ; User Settable - 400 V (OR) 380 V (L - L)
Output Voltage Regulation	± 1 %
Control Design	Microcontroller (Digital Signal Processor) based system
Waveform Distortion	NIL (Output Waveform same as Input Waveform)
Effect of Load PF on O/P Voltage	NIL
Correction Speed	> 60 V/ Sec
Response Time	10 milli sec
Efficiency	≥ 98 %
Under / Over Voltage Cut-Off	<ul style="list-style-type: none"> Upper Limit +5% (Above set O/P Voltage) Lower Limit -10% (Below set O/P Voltage)
Output Over Load Protection	Electronic Operative above 110% of rated output current
Phase Reversal Protection	Built-in
Single Phasing Prevention	Built-in
Stabiliser "ON/OFF" Operation	<ul style="list-style-type: none"> User Settable Auto Restart 1 sec - 998 sec User Settable Manual Restart
Display Type	Backlight LCD Display (Will vary as per the Control system)
Parameters Displayed	<ul style="list-style-type: none"> I/P & O/P Voltage (L-L & L-N), Hz, Amps R-Y-B Will vary as per the Control system used
Front Panel Indications	LED Indication for – Input Present, Output Normal
Front Panel User Interface	MENU, UP/DOWN KEY, ENTER/SET KEY
Event Recorder	Fault Analysis - Check for the Control System Used
Input / Output Connection	Input / Output – Terminal Plate with Nut-Bolt arrangement
Emergency Manual Bypass	Built-in
Output Contactor	Built-in
Surge Protection Device (SPD)	OPTIONAL
Ambient Temperature	0° C to 50° C
Rating in kVA	3 kVA to 150 kVA
Design Standards	As per IS:9815

- Specifications are subject to change without notice, on account of development in product design.

PRODUCT RANGE

- ♦ SERVO VOLTAGE STABILISERS
- ♦ STATIC VOLTAGE STABILISERS
- ♦ ULTRA ISOLATION TRANSFORMERS
- ♦ K-RATED TRANSFORMERS
- ♦ CONSTANT VOLTAGE TRANSFORMERS
- ♦ UN-INTERRUPTED POWER SUPPLIES
- ♦ SURGE PROTECTION DEVICES
- ♦ EMI/RFI FILTERS

Custom Designed:

- 150 kVA and above
- Wide / Short input voltage range
- Specific output voltage
- Outdoor Models

Founded in 2001 in Chennai, India, VERTEX is involved in manufacturing Electrical Power Protection Systems. Over the years, the company has earned a reputation for excellence and professionalism for continuously striving to meet and even exceed the standards thereby setting the environment for a sustainable business relationship with its clients.

Today we are one of the leading manufacturers of Servo Voltage Stabilisers and Isolation Transformers in India with **over 1 lakh installations.**

VERTEX employs technically skilled, qualified and highly dedicated personnel working cohesively to promote value-added solutions at competitive pricing to suit distinct clientele needs.

SOME OF OUR VALUED CUSTOMERS

Textiles: Veejay Lakshmi, TVS (textile division), LMW, Lakshmi Mills, Premier Mills, KPR Group, Loyal textiles, SCM textiles, GTN Group, GMR Spintex, Bharat Silks, Raymond Mills, Ambika Mills, Paramount Group, Indian Rayon, Gopalakrishna Mills, Mangrool Mills, Mount Exports, etc

Petroleum: HPCL, Petro Araldite.

Cellular/Telecom: IDEA Cellular, Reliance.

Educational /Research Institute: Indian Institute of Science (**IISC**), Sri Venkateshwara University, SKBR Group, and Good Shepherd School of Education, etc

Government & Public Sector: ETDC, South Central Railways, LIC of India, State bank Of India, Bharat Electronics (BEL), BHEL, HIAL, NAL, CWSSSES, CONCOR, CSIR-SERC, IRCTC, IGCAR, etc

Pharma /Analytical: Dr.Reddy's Lab, Nicholas Piramal, NATCO Pharma, VIRCHOW Labs, AIMIL, Helppanel System, etc

Engineering: Veejay Lakshmi Engineering Pvt Ltd, Pride Machine Tools, Rane Madras group, Madras Engineering Industries P. Ltd., Alfa Laval, Yuken India, Deccan Hydraulics, Rolastar Group, Maini Precision, Ashok Leyland, Sundaram Clayton, Associated commercial, Nash Industries, Solidus Hitech, Indo Shell Cast, Virpan Precision, Kirby Building systems Pvt Ltd, Fenesta Building system, Gokul Industries, Dream Valley Castle Services Pvt Ltd, Myung Sung India Precision Pvt Ltd, SL Lumax Ltd., etc

Others: ITC Bhadrachalam Paper & board Ltd., The Andhra Sugars Ltd., L & T - ECC Div, ECLAT Auto pack, Ascents Circuits, AT & S (India), Reliance Fresh, India Cements, Ingersoll-Rand India, TUV Suddeutschland India, SKOL Breweries Ltd, Mission Hospital, Kotak Mahindra Bank Ltd, Hindustan Liver Ltd., Whirl pool of India Ltd., Vieston Automotive, Standard Chartered bank, Aachi Masala Pvt Ltd., Uniply Industries, Thirumala Milk products Pvt Ltd, APC Consultants Pvt Ltd, Sidra Foot Wear Pvt Ltd, Imaan Shoes Pvt Ltd., Harshal Printing, Wingtech Mobile, Amararaja Batteries, etc.

Head Office & Works:

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