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zener[®]
AN ISO 9001:2008 CERTIFIED COMPANY

ABOUT US

With over 25 years of experience, we at ZENER have built a reputation of offering unparalleled technological expertise. Today, we have evolved to be one of the leading providers of power conditioning and power protection solutions.

At ZENER, we understand your specific requirement and provide solutions that suit you the best. Abiding by our brand mission that encompasses values, reliability and technology; we provide bespoke, state-of-art, cost-effective and reliable solutions for your unique business needs. We focus on performance, reliability and ease of use. We provide superior value by focusing on delivering best-in-class products and solutions that help enterprises like yours improve business efficiency.

Our team of top-notch professionals ensure excellent after-sales services. So, choose a solution from ZENER that is suitable for you, and experience pure power like thousands of customers across the country.

ZENER SERVO STABILIZER

- High efficiency & Fast response.
- Wide input voltage range & Audible alarm for trip conditions.
- 99.99% failure proof control circuit.
- No over under, shoots and hunting.
- Built in bypass switch upto 100 Kva.
- Less active component avoids failure ratings.
- Special electronic circuit to operate on gensets.
- No effect of power factor and frequency variations.
- Single PCB for three phase sensing and correction.
- Voltage at speed related to rate of fluctuations and avoids oscillations & hunting In dc motor drive.
- Variable speed high torque dc servo motor proportionally controls corrections.
- Rugged and smooth ac motor drive control through optoisolator circuit which is highly reliable.
- Separate isolated PCB for triac switching for motor.

HIGH RELIABILITY

HIGH RELIABILITY DUE TO DIGITAL MONITORING AND CONTROLLING USING MICRO CONTROLLER.

ALL COMPONENTS SOURCED FROM REPUTED MANUFACTURERS, CONFIRM TO IS/BS/VDU STANDARDS.

ALL RAW MATERIAL INSPECTION AS PER INTERNAL COMPONENTS MANUAL.

INDIVIDUAL ASSEMBLIES AND SUB ASSEMBLIES TESTED SEPARATELY.

ALL ELECTRONIC ASSEMBLIES TESTED ON FULL LOAD AT 55 DEG C IN OVEN FOR 48 HOURS TO MINIMIZE FAILURE.

FINAL EQUIPMENT TESTED FOR ACCELERATED LIFE TEST TO IDENTIFY AND REPLACE ANY WEAK LINKS.

LCD SPECIFICATION



- 16*4 lcd display is used for easy reading of parameters.
- True rms sensing and reading of voltage and current.
- 100 event error log facilities for easy diagnosis of fault level.
- Internal variable timer is adopted for on time delay and overload trip of scvs.
- Selectable phase reverse function.
- Selectable auto on function.
- Less analog circuit and hence failure rate is reduced.
- Built in digital meter for monitoring the voltage / current & frequency.
- Separate isolated PCB for triac switching for motor.



Servo Stabilizer
Three Phase
Air Cooled

Servo Stabilizer
Single Phase
Air Cooled

Static Stabilizer
Thyristor Switching
Type

PROTECTIONS

Input and output low voltage protections.
Input and output high voltage protections.
Phase rotation / single phasing preventer.
Input protection using HRC fuse.
Control circuit protection using fast blow fuse.
Electronic overload protection.

PARAMETERS	SPECIFICATION
Single phase capacity	1 to 25 kva
Three phase (air cooled)	3 to 150 kva
Three Phase (oil cooled)	3 to 2000 kva
Input voltage range	170-270 Single phase 295-465 volts three phase 195-270 Single phase 340-465 volts three phase 205-270 single phase 360-465 volts three phase
Special range	As per customer requirements
Output voltage	220/230/240 V AC in single phase 380/400/415 V AC in three phase
System	Unbalanced/balanced type
Connection	Star/Delta or Star/Star
Output Voltage regulation	(+/-) 1% from no load to full load
Servo motor drive model -A	AC Servo Synchronous Motor - Small
Correction speed	35 V/sec-1 ph, 60 V/sec-3 ph
Response time	Above 60 milli.sec.
Servo motor model-B	DC servo motor
Correction speed	Upto 105 V/sec.
Response time	10 milli.sec.
Operating frequency	47 to 53 HZ
Output waveform	True reproduction of input
Insulation	Class "B"
Short circuit percentage and period	300 % for 250 milli sec.
Overload capacity	120 % for 1 minute
Effect of load PF on OP Volts	Nil
Waveform distortion	Nil
Duty Cycle	100 % continuous
Ambient	Upto 45c max above ambient Relative humidity upto 90%
System construction	As per IS:9815
Enclosure	Powder coated
Efficiency	Better than 98% (electrical consumption saved)
Environment	Designed for indoor / outdoor tropical use
Mounting	On wheels
Earthing	Earthing terminals provided

zener ISOLATION TRANSFORMERS

ZENER ISOLATION TRANSFORMERS offer complete line isolation, continuous noise filtering to eliminate harmonic distortion and enhanced common mode surge suppression. An internal low impedance isolation transformer component with Faraday Shield offers 100% isolation from the input AC. The Common Mode Noise and Normal Mode Noise are generated in the Common Utility Mains due to parallel connection of the critical loads to the noise generating loads. These High Magnitude noises occur between conductors due to switching action of the load connected in parallel to the sensitive loads. These noises are isolated by Zener Isolation Transformers and thereby safe guard the critical / precise loads like CNC / Medical / IT loads. We manufacture 1Kva to 2000Kva capacities designed for isolating sensitive equipment from Line Voltage Transients, Spikes and DC Leakage. It also eliminates EMI / RFI noise, Utility Switching Transients and background Spikes.

CAPACITY : 1 KVA TO 2000 KVA
REGULATION : 3 : 5 %
CORE : CRGO/CRNO

DIELECTRIC STRENGTH : 2500 V FOR 1 MIN.
RESISTANCE : GREATER THAN 100 MEGA OHMS
CONNECTION : DELTA/STAR OR STAR / STAR FOR 3 PHASE

INSULATION : CLASS B, H OF F
NO LOAD CURRENT : LESS THAN 5%
POWER FACTOR : 0.8 LAG TO 0.8 LEAD

APPLICATIONS

R & D / Lifts / CNC / Laser
IT & Call Centre
Processing Plants
Medical Equipment
Moulding Machines
Air-Conditioning Plants
Escalators & Elevators
Group Housing Societies
Hospitals & Nursing Homes
Defence & Telecommunications
Commercial Buildings & Complexes
Printing & Publishing Companies
Automobile, Chemical & Textile Industries

OPTIONAL FEATURES

Electronic Over Load Protection
Digital Amps Meter
Bypass Switch Above 100 Kva
EMI/RFI Filter & Spike Suppressor
MCB/MCCB For Input
Dimmer Fuse Protection

OUR OTHER PRODUCTS

- Online UPS
- Industrial Emergency Power Supplies Stepdown and Isolation transformers
- Battery chargers
- Float Cum Boost Chargers
- Isolation Transformers
- Variacs/Dimmer/Auto Transformers
DC Rectifiers



Isolation Transformer



Variable Auto Transformer



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* Due to continuous development in technology and designs, the specifications may change without notice.

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