

ULTRA ISOLATION TRANSFORMER

Sophisticated electronics equipment are most sensitive to line transients, spikes and notches. These impulses are of a very short duration of the order of a microsecond to a very few milliseconds but their amplitude can range from hundreds to thousands of volts. They can be caused by lightning, mains line switching, airconditioning or switching of any heavy duty machinery. If they are not suppressed they can cause memory loss in computers or scrambled data transmission, overstressed components or even component failure.

SUVIK ultra Isolation transformer provides effective protection from the line transients. Primary and secondary of the transformer are wound on separate cores, multiple-shielded and fully isolated from each other and the ground to ensure extremely low interwinding capacitance. It acts as an efficient low pass filter and suppresses line transients, spikes and galvanic leakage to protect the computer system. Due to total Isolation from the mains line the Isolation Transformer output is extremely safe to handle and is most suitable for medical applications, as well. It is available in KVA ratings from 10 KVA to 1000 KVA Three phase models.

SALIENT FEATURES

- Effective Isolation from the noisy power lines
- Extremely low interwinding capacitance
- Electrostatic shielding and protection
- High galvanic Isolation
- Suppression of common mode and transverse mode noise





TECHNICAL SPECIFICATIONS

Input voltage	: 230/415V (acceptable $\pm 10\%$) 1 Φ / 3 Φ + Neutral [Or As per customer's requirement]
Output voltage	: 230/415V (same as input) 1 Φ / 3 Φ + Neutral [Or As per customer's requirement]
Transformer ratio	: 1:1 [Or As per customer's requirement]
DC Galvanic Isolation	: Over 100 Mega-ohms between windings Or any winding to ground at 500 V DC
Breakdown strength	: 2500 volts AC for 2 minutes
Common Mode Noise Rejection	: Better than 110 dB
Coupling Capacitance	: 0.005 to 0.009 pF
Line Frequency	: 47 to 63 Hz
Load Regulation	: Within & upto 4%
Cooling	: Air / Oil Cooled
Construction	: Powder coated sheet metal enclosure with Input/Output terminations through brass/copper studs
Capacity	: 10 KVA to 1000 KVA
Model No.	: Series IT 4200 for 3 Φ

TYPICAL APPLICATIONS

- For preventing data-corruption and failure in computers using hard disc.
- For the protection of telecommunication and data communication equipment.
- For the patient's safety while using machines like ECG, EEG or EMG Pacemakers or Any electrosurgical aid.
- For clear recording in audio and video recording equipment.
- For error free data in process control Instruments.
- For elimination of earthing problem in computer installation.
- For protection of CNC/PLC equipment from surges / splkes.



SUVIK ELECTRONICS PVT. LTD.

Plot no. 102/A, GIDC Engineering Estate, Sec-28 Gandhinagar-382 028, Gujarat. INDIA
Phone: +91-79-23212001/2/3 Fax: +91-79-23212006, E-mail : info@suvik.com, mktg@suvik.com

www.suvik.com

Our policy is one of continuous improvement and the company reserves the right to amend design and specification without notice.

