

Line transients and spikes, are the main factors, causing wrong operation, erratic performance and inaccurate recording of sensitive and Sophisticated Electronic Systems. To over come this problem, "SINETRAC" has come up with the answer of giving Isolation Transformer (in Conjunction with SINETRAC Automatic Voltage Stabilizers) to render clean Power for all sorts of sensitive electronic equipment.

"SINETRAC" Isolation Transformer ensures clean power supply to sensitive electronic equipments in addition to isolating the load from the mains line.

A schematic of Isolation Transformer is given below in Fig. A.

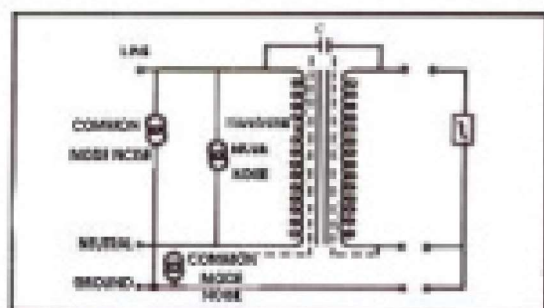


Fig. A.

Sinetrac Isolation Transformer. Two center lines represent core material C is effective coupling capacitance between primary and secondary.

"SINETRAC" Isolation Transformer, attenuates noise in both directions 'IN' as well 'OUT'. It attenuates common mode noise and transverse mode noise. Common Mode Noise occurs between the ground wire and both current carrying conductors (Fig. A) while transverse Mode Noise occurs between the current carrying conducts. (Fig. B)

CONFIGURATION: 'SINETRAC' Isolation Transformer employs a unique multiple shielding technique that reduces the interwinding capacitance to below 0.005 picofarads, D.C. Isolation to over 1000 Megohms and line leakage current to a safe 10 microamps maximum. Whereas an ordinary Isolation Transformer has interwinding very high capacitance. 'SINETRAC' Isolation Transformer has therefore only ten thousandth the noise leakage as compared to an ordinary Isolation Transformer. Sinetrac Isolation Transformers are available upto designed rating in single phase. For three phase Input supply, three single phase units are connected in STAR configuration.

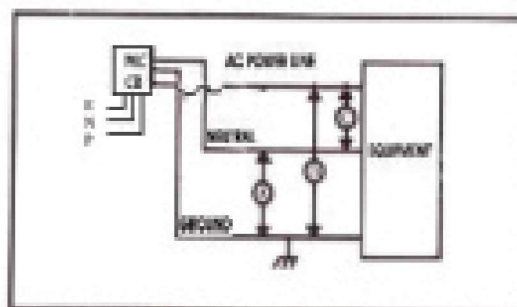


Fig B.

Noise attenuation Common mode noise (A and B) & transverse mode noise (C)

TECHNICAL SPECIFICATIONS OF SINETRAC ISOLATION TRANSFORMER

Input Voltage Single Phase / Three Phase	230 / 415 $\pm$ 10% AC
Mode of operation	As Step Down or Step-UP or 1:1 Isolation Transformer
Common Mode Noise Rejection:	Over 100 Db
Coupling Capacitance	Less than .1 pF
Insulation Level	More than 100 Meg ohms
Breakdown Strength	2500 V AC for 2 minutes
Load Regulation	About 3.5%
Line Leakage Current	Less than 50 micro amps upto 1 kVA