



**AM Power**

# ISOLATION TRANSFORMER

Switching of electrical utilities in Industrial & Commercial environment generates spikes & high frequency power line Noises.

The spikes can cause the failure of thyristors, Micro-processors, or another active electronic device. The high frequency noises can interfere with Digital-Electronic equipment causing data corruption, erratic behavior, loss of memory etc.

By creating isolation between the incoming power supply and the powered circuit, A M Power's Isolation Transformers eliminate electrical noises, attenuate spikes, and provide comprehensive protection. Machine or equipment can be isolated from the rest of the electrical installation with the help of the isolation transformer, so power loss can be avoided during installation fault.



**A M Power**

*Our Isolation Transformer eliminates noises & attenuates the spikes to negligible values by/ with providing complete protection against any electrical disturbances*

## STANDARD FEATURES

<ul style="list-style-type: none"> <li>→ Isolation between a source and equipment ensures the improved safety</li> <li>→ Reduced Surges and Spikes, High frequency Noise Reduction with special Shielding technique.</li> <li>→ High performance or efficiency.</li> <li>→ Reduced coupling capacitance</li> <li>→ It can block interference caused by ground loops</li> <li>→ Better Power Quality.</li> <li>→ Block transmission of the DC component</li> </ul>	<ul style="list-style-type: none"> <li>→ Lower leakage current and Output Impedance.</li> <li>→ Coil design is optimized for low eddy current loss and high harmonic current carrying capacity.</li> <li>→ Cores designed for reduced flux densities to compensate for harmonic voltage distortion.</li> <li>→ 100 % Neutral current carrying capacity.</li> <li>→ The core made from high permeability, low losses electrical steel.</li> <li>→ Quiet operation</li> </ul>
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Type	KVA Ratings	Input Voltage Range (VAC)	Output Voltage (VAC)
1 Phase	1 – 50 KVA	220 / 230 / 240	220 / 230 / 240
		220 / 230 / 240	100 / 110 / 120
Unbalance 3 Phase Air Cooled	5 – 150 KVA	380 / 400 / 415 / 440	380 / 400 / 415 / 460
		380 / 400 / 415 / 440	200 / 220
		380 / 400 / 415 / 440	200 & 220
Unbalance 3 Phase Oil Cooled	50 – 1000 KVA	380 / 400 / 415 / 440	380 / 400 / 415 / 460
		380 / 400 / 415 / 440	200 / 220
		380 / 400 / 415 / 440	200 & 220

- a) Please contact our sales engineers for further guidance.
- b) Other Input and Output Voltages are also available.

## TECHNICAL SPECIFICATIONS

Frequency	50 +/- 3 Hz / 60 Hz on request.
Input / Output configuration	Single Phase a) Line – Neutral / Earth Three Phase a) Delta / Star ( Dyn11 standard vector Group / other on request )
Construction	Double wound, multiple shielding technic, Varnish and vacuum impregnated.
Winding	99.9 % pure Electrolytic grade Copper / Aluminum
Neutral Conductor	100 %
Insulation Class / Level	F Class / 155 deg. C & H Class / 180 deg. C
Efficiency	Better than 97 %.
Regulation	2 – 4 % or as required.
Impedance	Max. 4 % or as required.
Common mode Noise Attenuation	80 – 100 dB / better on request.
Coupling Capacitance	Better than 0.1 pf / other on request
Galvanic Insulation	Better than 500 Mega-Ohms - DC Isolation @ 2500 V
High Voltage Breakdown Test	2.5 KV for one Minute Between windings and Earth.
Termination Type	Terminal Board / Stud – Bolts / Bus Bar
Enclosure Protection Class	IP21 for Air Cooled.

- \* Non-Standard KVA ratings, Input Voltage and Output Voltages are also available on request.
- \* A M Power reserves rights to amend design and specification without notice as continuous efforts are being made to Improve product performance.
- \* Some of the features are optional depend on model and as per order.

## APPLICATIONS

CNC Machines	Printing Machines	Food Industries	Medical Diagnostic Equipment
Lab Equipment	Electronic Equipment	Data centers	Process Control equipment's
Water Treatment Plant	Injection Moulding Ind.	Robotics	Telecommunication Systems
Textile Machinery	Automobile Industries	HVAC Plants	Automatic car Parking System
Hospitals	Residential	Elevators	Pharmaceutical Machine

## OPTIONAL FEATURES

- Analog / Digital Metering for Input and Output Voltages.
- Output On Indication LED/Lamps.
- Digital Earth Leakage Meter for sophistication machines and Instruments.
- Input Circuit breaker
- Multiple Tapping at Input and Output

## CONTACT

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