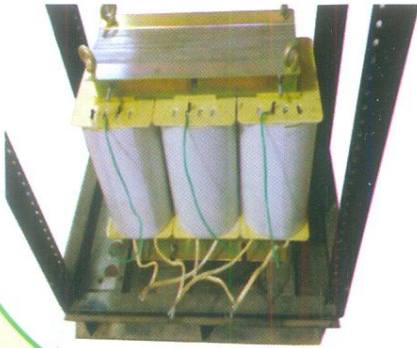


ISOLATION TRANSFORMERS

Three Phase



Isolation Transformers
5 kVA - 100 kVA



Common mode noise and high energy transients can easily disrupt the operation of sensitive electronic equipment. Poor quality power prone to this type of interference can cause problems in all sorts of environments, including telecommunications and data centres, medical units, CAS/CAM networks, and process control operations.

However, a **KALORIE™ Isolation Transformer** can play an important role in building power distribution by reducing common mode noise. It can also be used at the input side or output side of UPS Systems or at the bypass circuit of UPS installations.

Three-Phase Isolation Transformer :

In a three-phase transformer, there is a three-legged iron core as shown below. Each leg has a respective primary and secondary winding.

The three primary windings (P1, P2, P3) will be connected at the factory to provide the proper sequence (or correct polarity) required and will be in a configuration known as Delta. The three secondary windings (S'1, S2, S3)' will also be connected at the factory to provide the proper sequence (or correct polarity) required. However, the secondary windings, depending on our voltage requirements, will be in either Delta to Delta or Delta to Wye or Wye to Delta or Wye to Wye configuration.

KALORIE™ 3-Phase Shielded Isolation Transformers have all the feature of the standard 3 phase isolation transformers plus they also incorporate a full metallic shield (usually copper or aluminum) between the 3 phase primary and 3 phase secondary windings. This electrostatic shield ("Faraday Shield") is connected to earth ground and performs two functions:

One, it attenuates (filters) voltage transients (voltage spikes). These shielded 3 phase isolation transformers have an attenuation ratio of 100 to 1.

Two, It also filters common mode noise. Attenuation of approximately 30 decibels.

TECHNICAL SPECIFICATIONS :

Parameter	Specs
Rating	5kVA-100kVA(3Phase to 3Phase)
	5kVA-60kVA (3 Phase to 1Phase)
Input voltage Range	390/415V (+20%, 30%)
	Optional Voltage Range also available
Input Frequency	47-53Hz
Insulation Resistance	500meg ohm at 500V
Dielectric Strength	2.5kV for 1 minutes
Leakage Current	Less than 25 Micro Amps
Output Voltage	Same as input (or) customized output voltage
Voltage Ratio	1:1/*Other Ratios Optional
Winding	Delta Star for 3Phase / *Other Connections Optional
	Winding Material is enameled AL or enameled FG AL/*Copper winding is available if asked
Protection	MCB / MCCBs
Normal Mode Noise	<60dB
Ambient Temperature	0 to 45 Deg. C
Humidity	Up to 95% RH
Shield	Electrostatic Shield provided
Type	Indoor, Floor mounting
Environment	Indoor/Industrial Use
Cooling	Natural Air Cooling

MODEL DETAILS:

Phase	kVA	H x W x D (mm)		
3Ph-3Ph	5kVA	600	375	640
3Ph-3Ph	7.5kVA	600	375	640
3Ph-3Ph	10kVA	600	375	640
3Ph-3Ph	15kVA	1150	375	640
3Ph-3Ph	20kVA	1150	425	690
3Ph-3Ph	30kVA	1150	425	690
3Ph-3Ph	80kVA	1150	500	1050
3Ph-3Ph	100kVA	1400	600	1050

The weights given are indicative; this may vary $\pm 10\%$. The weights for copper winding shall be lesser.

PACKAGED ISOLATION TRANSFORMER WITH SURGE SUPPRESSOR

KALORIE™ 3-Phase Isolation Transformers can be packaged with surge suppression system that will minimize any problems caused by high-energy transients and HF noise in the normal mode. Surge suppressors from 50kA to 200kA (3phase, all-mode-protection types) can be effectively packaged with 3-Phase Isolation Transformers. These can be ordered specifically.

While every precaution has been taken to ensure accuracy and completeness in this brochure, Positrix Power Private Ltd. assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions. Specifications subject to change without notice.

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