TECH MACH
MACHINE TOOLS

Isolation Transformer

Technical Specifications

Capacity	:	1 KVA - 25 KVA 1 Phase
	:	3 KVA - 500 KVA 3phase
Primary Voltage	:	200/230 V 1 Phase
	:	380 V / 400V / 415 V 3 Phase
Secondary Voltage	:	110 V / 230 V 1 Phase
	:	220 V / 380 V / 400 V 415 V 3 Phase
System Connections	:	Delta / Star
		Star / Star
Ratio	:	1:1 and 2:1
Regulation	:	Better than 3.5%
Power Factor	:	0.75 Lead to 0.75 lag
Di-electric Strenght	:	3 KV for 60 Sec
Insulation Resistance	:	Better than 1000 Mega Ohms
Coupling Capacitance	:	0.01 PF
Leakage Current	:	less than 20 Micro Amps
Common Mode Attenuation	:	100 Db / 120 Db
Construction Standards	:	As per IS 2026 Part I & II
Type of constructions	:	Closed Type / Open Type
Operating Temperature	:	0 °C to 45 C °
Type of cooling	:	Natural air / Forced air

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Servo Stabilizers - Air & Oil Cooled

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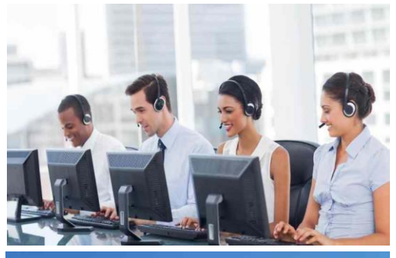
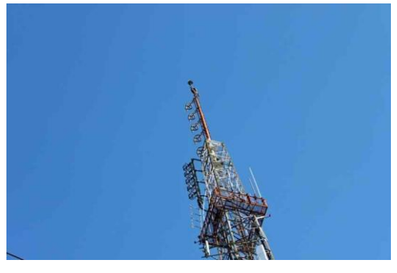
Technical Specifications

Capacity	:	1 KVA - 25 KVA 1 Phase
	:	3 KVA - 150 KVA 3 Phase [Air Cooled]
	:	3 KVA - 1500 KVA 3 Phase [Oil Cooled]
Input Voltage Range	:	170 V - 270 V AC 1 Phase
Other Input Voltage Range	:	340 V - 460 - V AC 3 Phase
Out Voltages	:	295 V - 465 V AC 3 Phase
	:	360 V - 460 V AC 3 Phase
Output Voltage Regulation	:	+ 1% at No Load- Full Load
System	:	Unbalanced 4 Wire System
Operating Frequency	:	47 Hz - 53 Hz
Speed of Correction	:	70 V / Sec - Phase to Phase
	:	35 V / Sec - Phase to Neutral
Wave From Distortion	:	Nil
Output Wave From	:	True Reproduction of input
Insulation	:	Class “B” & “F”
Operating Temperature	:	0 °C - 45 c Ambient
Type of Cooling	:	Naturally Air Cooled up to 150 KVA 3 Phase
	:	Oil Cooled up to 1500 KVA 3 Phase
Short Circuit Period & Percentage	:	300 % for 250 m. sec
Mode of Control	:	Automatic / Manual
Over Load Capacity	:	120 % for 10 Min.
System Construction	:	As Per IS : 9815
Protections	:	Low Voltage Protection High Voltage Protection Short Circuit Protection Over Load Protection Single Phase Preventor Phase Reversal Protection
Controls	:	Input ON / OFF - MCB / MCCB Output ON - AUTO / MANUAL
Indications	:	Input- ON, Input-HIGH, Input-LOW Output-ON, Output-HIGH, Output- LOW OUTput- OVER LOAD Phase Reversal-Cut Off
Metering	:	LED display to read following parameters I/P VOLTAGE, O/P CURRENT & Frequency
Optional Features	:	. Frequency Trip (High / Low) . MCB / MCCB for Output . Surge / Spikes Suppressor . Line Filters . By- pass Switch

Applications Servo Stabilizers - Air & Oil Cooled





QUALITY POLICIES

. Components used are as per the IES

. All Internal components are tested at every stage of assembly of the equipment

. Final equipment is subjected for accelerated life test to rectify and replace any weak components

SALIENT FEATURES:

. Solid state control circuits, no relays, no warm-up time for high reliability

. Every unit is ‘Soak tested’ for 48 hours to ensure trouble free operation

. Quick response time 10 m.sec

. AC Synchronous motor drive for high reliability (DC Motor Operation)

. All transformers are copper-wound on CR Laminations and double vacuum impregnated for high efficiency, low losses and low temperature rise

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. Excellent regulation as high as ± 1%

. Reputed make ICs and components are used for high reliability

. Rugged construction

. Very high efficiency