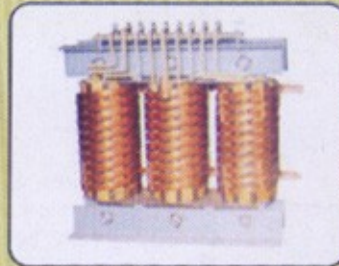


# IEC Products

Celebrating 30 Years  
Since 1980



L.T. TRANSFORMER



VARIAC



H.T. TRANSFORMER



SERVO STABILIZER



ISOLATION TRANSFORMER

Manufactured By :



**INDUSTRIAL ELECTRICAL CORPORATION**

602, Phase IV, B/h. Maruti Weigh - Bridge, GIDC Vatva, Ahmedabad - 382 445.

Tel. : 079-25831047 Fax : 079-25834379 E-mail : mn\_ppk@bsnl.in Web site : www.servostabilizers.com

## SERVO STABILIZER



### Technical Data

Rating in Amp.	: 1 to 1500 KVA, 3/1 Phase, Balance / Unbalance type.
Input Voltage Range	: 170-270 V / 150-270 V for 1 Phase (can also provide min. range 120 V and max. Range 300 V) 360-480 V / 330-480 V / 300-480 V for 3 Phase (can also provide min. range 250 V and max. Range 500 V)
Input Frequency Range	: 50 Hz.
Output Voltage Range	: 220 / 230 / 240 V $\pm$ 1%, adj. 5% for 1 Phase 380 / 400 / 415 V $\pm$ 1%, adj. 5% for 3 Phase
Output Freq. Range	: 50 Hz.
Type of Installation	: Indoor / Outdoor Type of Cooling : Air Cooled / Oil Cooled. (Without oil)
Qty. of Oil	: Depends on rating of stabilizer.
Oil Type	: Transformer oil as per IS 335.
No. of parts of Stab	: 1 No.
Temp. rise	: 45 °C Maximum more than atmosphere temp. (as per IS specification)
Correction Rate (V / Sec.)	: Max. 32 Volt / Sec.
Duty Cycle	: 100% or S1
Mounting	: Floor mounted / Free on wheel
Metering	: Voltmeter with selector switch Ameter with selector switch (Customer request)
Indicating Lamps	: Power On, High / Low voltage Indication, Protection (on request) : (A) Over Load Protection (B) Over / Under Voltage cut off (C) Single Phasing preventor : (D) Short circuit protection
Bypass Facility	: On request of Customer
No load losses	: 1% of the rated VA
Load losses at full load	: 3% of the rated VA
Efficiency at 50% load	: More than 98.5%
Efficiency at 80% load	: More than 98%
Efficiency at full load	: More than 97%
Regulation	: $\pm$ 1%
Life of roller carbon brush	: Min. 5 Yrs. Roller Carbon with min wear & tear. Angular Pressure Roller Carbon Brush Assembly Which will protect the winding wire from Vertical Pressure deformation. (Roller carbon brush above 40 Amp.)
Construction	: For the Air Cool, the frame is made up of square pipes with MS Sheets on the sides to enclose the box. For Oil Cool, bottom part consists of Oil tank whereas upper part is made of the angle structure with the covering of the fabricated sheet of gasket to seal the tank and upper part of structure
Size of the unit	: Depends on rating of stabilizer.

## H.T. TRANSFORMER



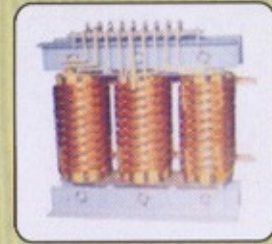
### Technical Data

Rating	: Upto 1500 KVA - 3 Phase, 4-wire
Input	: 11 / 22 / 33 / 66 KV
Output	: 415 / 433 V. A.C. $\pm$ 5%
Frequency	: 47-53 Hz
Winding	: Copper wound / Aluminum wound
Vector diagram	: DY 1 / DY 11 / DY 5 / YY 0
Tapping	: Primary : 11500 / 11275 / 11000 / 10725 / 10450 V
Secondary	: $\pm$ 2.5% or 5%
Insulation	: Oil Cool : A or B Class
Air Cool	: E/F Class or H Class
Temp. Rise	: 45 / 50 Degree cel.
Impedance	: 4.5% / 5% / 6% / 7% / 10% max.
Type of Colling	: Oil cooled / Dry type Resincast
Duty Cycle	: Continuous
Wave form distortion	: Nil
No Load	: 1% of rated VA
Load losses at full load	: 2% of rated VA
Efficiency at Full load	: 98.3%
At 80% load	: 99%
At 50% load	: 99.2%
Mounting	: Free on wheel.
Enclosure	: Oil cooled Tank type Air cooled Fabrication box with angle structure with ventilation.

### Technical Data

Rating	: Upto 500 KVA - 3 Phase, 4-wire
Input Voltage	: As per customer requirement
Output Voltage	: As per customer requirement
Frequency	: 47-53 Hz
Winding	: Copper wound
Vector diagram	: Y-Y / Y-D / D-D
Tapping	: $\pm 2.5\%$ or $5\%$ at primary & Secondary (customer requirement)
Insulation	: Oil Cool : A or B Class
Air Cool	: E/F Class or H Class
Temp. Rise	: 45 / 50 Degree cel.
Type of Colling	: Oil cooled / Air cooled
Duty Cycle	: Continuous
Wave form distortion	: Nil
No Load	: 1% of rated VA
Load losses at full load	: 3% of rated VA
Efficiency at Full load	: 98.3%
At 80% load	: 99%
At 50% load	: 99.2%
Mounting	: Free on wheel
Enclosure	: Oil cooled Tank type. Air cooled Fabrication box with angle structure with ventilation.

### L.T. TRANSFORMER



### Technical Data

Rating in Amp.	: 2 to 600 Amp.
Input Voltage	: 240 V for 1 Ph. & 415 V for 3 Ph.
input Frequency Range	: 50 Hz. $\pm 3\%$
Output Voltage Range	: 0 to 270 V / 300 V Variable for 1 Ph. 0 to 470 V / 500 V Variable for 3 Ph.
Type of Installation	: Indoor.
Type of Cooling	: Oil cooled or Air cooled
Type of Enclosure	: Open type or Close type
Specification of Oil	: Transformer Oil as per IS 335.
Operation	: Hand Operated or Motorized
Temp. Rise above ambient	: 45 °C Maximum more than Atmosphere temp. (as per IS specification)
Duty Cycle	: Continues
Mounting	: Floor Mounting or Free on wheel
No load losses	: Not more than 3%
Load losses	: 5 to 7 at full load
Regulation	: $\pm 1\%$ Carbon brush : Strip or Roller Carbon brush Angular Pressure Roller Carbon Brush Assembly which will protect the winding wire from Vertical Pressure deformation. (Roller carbon brush above 40 Amp.)
Paint	: Powder Coated or Paint color

### VARIAC



### Technical Data

Power Rating	: Upto 100 KVA
Input Voltage	: As Required
Acceptable input Voltage	: $\pm 10\%$
Mode of Operation	: 1:1 Isolation Transformer
Common Mode Rejection	: Greater than 110 dB (Transient, Spikes, Surges)
Coupling Capacitance	: Less than 0.005 pF
DC Galvonic Isolation	: More than 1000 M ohms between any windings and winding to ground.
Break Down Strength	: 2500 V AC for 2 min.
Load Regulation	: 1%
Termination	: Brass studs with adequate rating / terminal block
Size	: As per rating
Weight	: As per rating
Operating temperature Range	: 15 deg. C to 50 deg. C
Relative Humidity	: 90% RH, $\pm 5\%$
Range	: 1 KVA to 100 KVA

### ISOLATION TRANSFORMER

