



## INTRODUCTION

**C**entrado leading-edge transformer products are designed to optimize safety and produced to deliver a great electrical power experience and solution - for factory, infrastructure, home industry, business and home electricity.

**Centrado** transformers are produce with the most current machine and adopting advanced technologies to meet a high quality transformer.

All of the **Centrado** product ranges are produced using high quality cooper with enamel isolated to deliver a great performance, reliability, durability and conformance to the user.



Introduction



## PRODUCTION RANGE

### DISTRIBUTION TRANSFORMER

<b>Capacity</b>	25 KVA up to 10.000 KVA
<b>Phase</b>	3 Ph / 1 Ph
<b>Primary</b>	20 KV
<b>Secondary</b>	400 V
<b>Type</b>	ONAN



### AUTO TRANSFORMER

<b>Capacity</b>	1 KVA up to 1000 KVA
<b>Phase</b>	3 Ph / 1 Ph
<b>Primary</b>	400/231 – 380/220 – 220/127 – 200/115 V
<b>Secondary</b>	200/115 – 220/127 – 380/220 – 400/231 V
<b>Type</b>	Dry / Oil



### ISOLATION TRANSFORMER

<b>Capacity</b>	1 KVA up to 1000 KVA
<b>Phase</b>	3 Ph / 1 Ph
<b>Primary</b>	400/231 – 380/220 – 220/127 – 200/115 V
<b>Secondary</b>	200/115 – 220/127 – 380/220 – 400/231 V
<b>Type</b>	Dry / Oil

Production Range



## PRODUCTION RANGE

### RECTIFIER TRANSFORMER

<b>Capacity</b>	500 Amp up to 10.000 Amp
<b>Primary</b>	220 / 380 V
<b>Secondary</b>	0 – 6V – 12V – 20V – 24V (DC)
<b>Cooling system</b>	Fan / oil



### STARTING TRANSFORMER

<b>Capacity</b>	3 HP up to 1500 HP
<b>Primary</b>	220 - 380 V
<b>Secondary</b>	0% – 50% - 65% - 80% - 100%



Production Range



## VOLTAGE

**C**entrado transformers are being adjusted to distributed voltage in Indonesia from 3 KV, 6 KV, 7 KV, 12 KV, 20 KV, 24 KV. The tap changer are at 2,5%, 5% and 10% are operated outside tank at unloaded condition. Centrado distribution transformer offers wide capacity range from 25 KVA up to 12.500 KVA.

At low voltage with unloaded condition, **centrado** transformer are produced at 133V/231V (B1) and 231V/400V (B2) or can be combined with simultaneous running with nominal 75% loaded voltage on B1 and 100% on B2.

**Centrado** transformer can handle dielectric test at high voltage (50Hz) and the impulse voltage are according to IEC standard by using magnetic core that made from grain oriented silicon steel with V shape designed to decrease iron losses, copper losses and operation noise that also reduce the size of transformer.

**Centrado** transformer can hold on short circuit and well tested with routine test, induced test, standard IEC test and quality control that give centrado transformer a new certification in ISO 9001 : 2001.



## VECTOR GROUP

**C**entrado transformer are generally designed with two type of Vector such as :

- 25 KVA - 160 KVA : Yzn
- 200 KVA - 10,000 KVA : Dyn



Voltage & Vector Group



## TERMINAL CONSTRUCTION

Coil at middle voltage are using great quality copper with enamel isolated and for the low voltage are using great quality copper foil.

Middle Voltage tap are using elastimould synthetic resin or porcelain bushing and for the low voltage tap are using porcelain bushing or mould cooper.

### Distribution Transformer Accessories

- **Included accessories**
  - High tension porcelain bushing
  - Low tension porcelain bushing
  - Manual of load tap changer
  - Thermometer pocket
  - Radiator
  - Oil level indicator
  - Pressure valve
  - Drain valve
  - Safety valve
  - Conservator
  - Earth terminal
  - Rollers
  - Hanger lugs
  
- **Optional accessories**
  - RIS / DMCR
  - Dial thermometer
  - Elastimold
  - Cable Box
  - Pressure Relief Valve
  - Pressure Vacuum Gauge
  - Nitrogen Filling Valve



Terminal Construction



## ROUTINE TEST

- Ratio test
- Iron loses test
- Impedance test
- Dielectric test 60 KV
- Insulation test
- Copper loses test
- Resistance winding machine
- Over voltage test 350 Hz

## WARRANTY

The **Centrado** transformer purchased is covered by a limited warranty program for a period of a 1 year, validity starting from the date of purchase.

### Our Additional Service

- Purifying Oil transfo
- Repair transformer
- Commisioning service
- Electrical installation

### Customer Support

**PT. Sentra Power Nusantara** provides an extra element of peace of mind to reliable products and service with its comprehensive customer support operation. Knowledgeable support staffs are available to resolve the rare technical support issue.

## CORPORATE ADDRESS



**PT. SENTRA POWER NUSANTARA**  
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Warranty &  
Our Additional Service