

# Power Transformer

TD & MTF series



Specially for CNC and industrial equipment

More than 25 years design and manufacturing experience, specialized R & D team and stringent quality control ensured top-rated product. Specialized in the manufacturing of all kinds of transformer, single phase and 3 phase transformer, auto transformer, automatic voltage regulator and UPS specific transformer, inductor and choke coil. We can also accept custom order design and manufactured to different capacity and specification.

## Feature:

- Scientifically reasonable design allowing control of voltage change rate within 1% - 1.5% range
- Manufactured of brand new silicone steel sheet of Shin Nippon, Kawasaki, Japan that effectively reduces iron loss, reducing field inrush current and increase efficiency
- Made of imported high purity copper wire that minimizes own loss rate and greatly increase effectiveness
- Adopt AROMA, Japan improved A type and DOPONT Nomex insulating paper as the main insulating materials and enhanced ventilation and heat sink design to increase the high voltage resisting strength and insulation class and therefore extend the service life.
- High efficiency design for more than 97% that effectively reduce stray capacity, leak impedance and inhibit input end noise
- Patented appearance design gives elegant and modern look; high power density, compact size and increase space utilization
- Adopted K coefficient in measuring harmonic wave ability; specially designed isolated transformer in filtering off tertiary harmonic wave and multiple output isolated transformer filters off 5, 7, 17 and 19 X frequency harmonic wave (Optional)

## ✧ Application:



CNC Equipment



AI Equipment



SMT



Base Station  
Equipment



Industrial  
Automation



Laboratory

Transformer Specific Bobbin



Transformer specific bobbin developed by the Company is capable of increasing production efficiency and overall beauty

Vacuum Impregnating Equipment



Combine with special oven, this equipment can inhibit the noise of transformer and increase insulation effect of transformer

Coil Sorting Machine



The wire sorting machine developed by the Company is to tidy the coil of transformer to increase efficacy

Transformer Main Body



Main body is fitted with wiring terminal which specifically marked with various voltage wiring, which is specific and clear

Specific Grounding Screw



Grounding is related with safety of equipment and person, which shall have specific and correct grounding mechanism

## Model & Specification:

| Model No.<br>(TD & MTF-)<br>&<br>Capacity | Single Phase Series   |            | Three Phase Series  |             |             |
|---|---|------------|---|-------------|-------------|
|   |   | 1003/3KVA  | 1025/25KVA  | 3005/5KVA   | 3045/45KVA  |
|   | 1005/5KVA   | 1030/30KVA | 3007/7.5KVA   | 3050/50KVA  | 3200/200KVA |
|   | 1007/7.5KVA   | 1040/40KVA | 3010/10KVA  | 3060/60KVA  | 3250/250KVA |
|   | 1010/10KVA  | 1050/50KVA | 3015/15KVA  | 3075/75KVA  | 3300/300KVA |
|   | 1015/15KVA  | 1060/60KVA | 3020/20KVA  | 3100/100KVA | 3400/400KVA |
|   | 1020/20KVA  | 1075/75KVA | 3030/30KVA  | 3120/120KVA | 3500/500KVA |
|   |   |            | 3040/40KVA  | 3150/150KVA |             |
| Voltage                                   | CS: Isolated Type<br>I / P: 1 φ 2W 220V<br>O / P: 1 φ 2W 110V or 110/220V<br>or 1 φ 3W 110-0-110V<br><br>C5: Isolated Type<br>I / P: 1 φ 2W O/P : 1 φ 2W<br>Special specification and voltage<br><br>C0: Auto Type<br>I / P: 1 φ 2W O/P : 1 φ 2W<br>Special specification and voltage |            | Y : Auto Type I / P: 3 φ 3W 380V<br>O/P : 3 φ 3W 220V or 200V<br><br>Y0: Auto Type I / P: 3 φ O/P : 3 φ<br>Special specification and voltage<br><br>Y2: Isolated Type I / P: 3 φ 3W O/P : 3 φ 4W<br><br>Y5: Isolated Type I / P: 3 φ 3W O/P : 3 φ 4W<br>Special specification and voltage |             |             |
| Frequency                                 | 50/60Hz   |            |   |             |             |
| Insulation Class                          | Class A (105°C) Class B (130°C) Class F (155°C) Class H (180°C)   |            |   |             |             |
| Cooling Method                            | Dry type with cooling fan   |            |   |             |             |
| Noise                                     | < 60db  |            |   |             |             |
| Efficiency                                | > 97%   |            |   |             |             |
| Insulation Resistance                     | P-SE, S-PE > DC500V/500MΩ   |            |   |             |             |
| Hi-Pot Test                               | P-SE,S-PE AC3KV/60SEC 5mA   |            |   |             |             |
| Hi-Frequency Test                         | 2 times of nominal voltage 400Hz/18SEC  |            |   |             |             |
| Impedance                                 | 2~5% 50/60Hz  |            |   |             |             |
| Protection                                | IP20  |            |   |             |             |
| Environment                               | Temperature: 0°C~50°C Humidity: 20%~95% (non-condensing)  |            |   |             |             |
| Safety Regulation                         | CE EN61558-1:1997 and EN61558-2-4:1997  |            |   |             |             |