

### Summary

Single-phase encapsulated general purpose transformer. 500 VA capacity. 600V primary, 120/240V secondary. Resin encapsulated, NEMA 3R indoor/outdoor enclosure. ETL Listed for US and Canada, wall mount.

### Product Description

This single-phase encapsulated general purpose transformer delivers safe, isolated power for commercial, industrial, and OEM applications. Rated at 500 VA with a 600V primary and 120/240V secondary, it supplies lighting, appliance, machine-tool, and distribution loads from a fully isolated secondary.

The encapsulated core-and-coil construction uses epoxy resin potting to seal out moisture, reduce audible hum, and provide reliable thermal performance under continuous duty. Aluminum windings with a 180 deg C insulation class and 115 deg C rise ensure long service life.

Housed in a NEMA 3R rated steel enclosure in ANSI 61 grey, it features 1/2" NPT knockouts and a surface mounting bracket for indoor or outdoor wall mount. The secondary is fully isolated for a separately derived system per NEC 250.30. Copper windings available on request.



TX-A1-050H-103124 - NEMA 3R Encapsulated, ETL Listed

### Specifications

| Specification       | Value                    | Specification         | Value                  |
|---------------------|--------------------------|-----------------------|------------------------|
| Phase               | Single Phase (1-PH), AC  | Transformer Type      | General Purpose        |
| Capacity            | 500 VA                   | Configuration         | Encapsulated Isolation |
| Primary Voltage     | 600V                     | Primary Termination   | Lead Wires             |
| Secondary Voltage   | 120/240V                 | Secondary Termination | Lead Wires             |
| Frequency           | 50/60 Hz                 | Termination Access    | Front Access Cover     |
| Insulation          | 180 deg C                | Winding Material      | Aluminum               |
| Temperature Rise    | 115 deg C                | Enclosure Material    | Steel                  |
| Maximum Primary OCP | 1A                       | Finish Color          | ANSI 61 Grey           |
| Wiring Knockouts    | (6) 1/2" NPT             | Weight                | 17 lbs                 |
| Dimensions          | 4.77"W x 3.86"D x 9.25"H | Mounting              | Wall / Surface         |

### Ratings & Certifications

- Listed for United States
- Listed for Canada
- NEMA 3R Indoor/Outdoor Enclosure
- Built to UL 1561 Standards
- CE Certified
- Epoxy Resin Encapsulated
- RoHS Compliant
- Separately Derived System
- Copper Windings Available



### Common Applications

- HVAC & Refrigeration
- CNC & Machine Tools
- Pump Stations
- Packaging Machines
- Commercial Kitchen Equipment
- Motor Loads
- EV Chargers
- Server Racks & IT Equipment
- Lighting Loads
- Fans & Blowers
- Conveyor Systems
- Overhead Doors

**Important: Made to order; standard lead time applies. Specifications are typical and subject to change without notice. Confirm voltage, capacity, and enclosure dimensions before ordering. Contact Sanzo Power for a quote.**

## Dimensions



## Wiring Diagram

### Diagram GP103

Single Primary / Dual Secondary



This single primary / dual secondary transformer provides an isolated 120/240V secondary from a 600V primary. Connect the line supply to primary terminals H1-H2 and take the load from secondary terminals X1-X4.

- Primary: 600V across H1-H2 - install supplied jumpers/links per nameplate
- Secondary: 120/240V across X1-X4
- Provide overcurrent protection and grounding per NEC Article 450 and 250.30



*TX-A1-050H-103124 - NEMA 3R Encapsulated General Purpose Transformer, ETL Listed*



*TX-A1-050H-103124 - Rear View - Mounting Bracket & Knockouts*



*TX-A1-050H-103124 - Side View - Enclosure Profile*



TX-A1-050H-103124 - Wiring Compartment - Primary & Secondary Leads



*TX-A1-050H-103124 - Interior View - Core, Coil & Lead Terminations*