

Summary

Single-phase encapsulated general purpose transformer. 500 VA capacity. 277V primary, 120V 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 277V primary and 120V 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-112123 - 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	277V	Primary Termination	Lead Wires
Secondary Voltage	120V	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	3A	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.

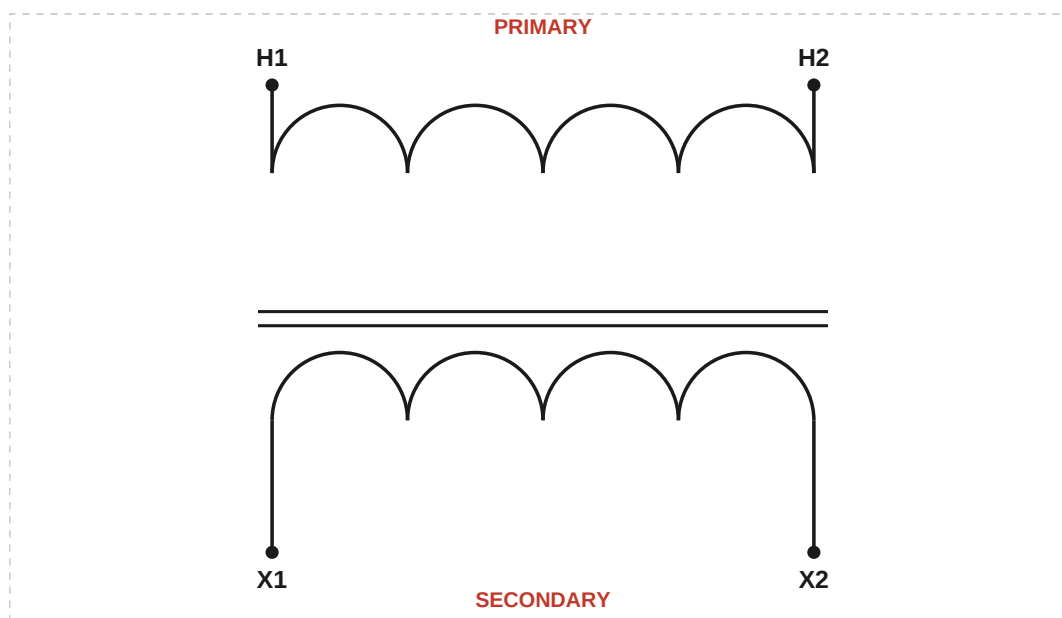
Dimensions



Wiring Diagram

Diagram GP100

Single Primary / Single Secondary



This single primary / single secondary transformer provides an isolated 120V secondary from a 277V primary. Connect the line supply to primary terminals H1-H2 and take the load from secondary terminals X1-X2.

- Primary: 277V across H1-H2 - install supplied jumpers/links per nameplate
- Secondary: 120V across X1-X2
- Provide overcurrent protection and grounding per NEC Article 450 and 250.30



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TX-A1-050H-112123 - Rear View - Mounting Bracket & Knockouts



TX-A1-050H-112123 - Side View - Enclosure Profile



TX-A1-050H-112123 - Wiring Compartment - Primary & Secondary Leads



TX-A1-050H-112123 - Interior View - Core, Coil & Lead Terminations