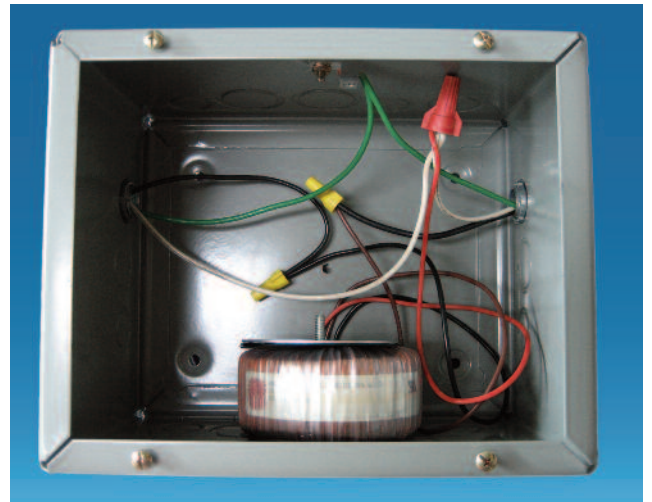


Auto Transformer - Model 277-240AT

Nextek's Auto Transformer Adapts AC Lighting Voltage for Use with Our DC Output Power Server Module

An auto-transformer is an electrical transformer with only one winding. The auto-prefix refers to the single coil rather than any automatic mechanism. In an auto-transformer portions of the same winding act as both the primary and secondary winding.

The winding has at least three taps where electrical connections are made. One end of the winding is usually connected in common to both the voltage source and the electrical load. The other end of the source and load are connected to taps along the winding. Different taps on the winding correspond to different voltages, measured from the common end. In a step-down transformer the source is usually connected across the entire winding while the load is connected by a tap across only a portion of the winding.



Auto-transformers are frequently used in power applications to interconnect systems operating at different voltage classes. In our application the transformer adapts typical 277 VAC lighting circuits for use with the 240 VAC input required for operating the Nextek Power Server Module.



For more information:

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Rev. 022513



Auto Transformer - Model 277-240AT

COMPLIANCE

- UL1012 – Power Units Other Than Class 2
- RoHS – Compliant (Pending)
- Transformer meets UL 506 and CSA C22.2 No. 66

MECHANICAL

Weight

5.0 pounds

Mounting Orientation

Flat vertical surface using 4 screws

Thermal Switch

Shuts off operation at 120°C at transformer

Operational Environmental Limits

Temperature Range 0°C – 50°C

Temperature Rise at Rated Current: 54°C

Humidity: 90% RH non-condensing

Storage Environmental Limits

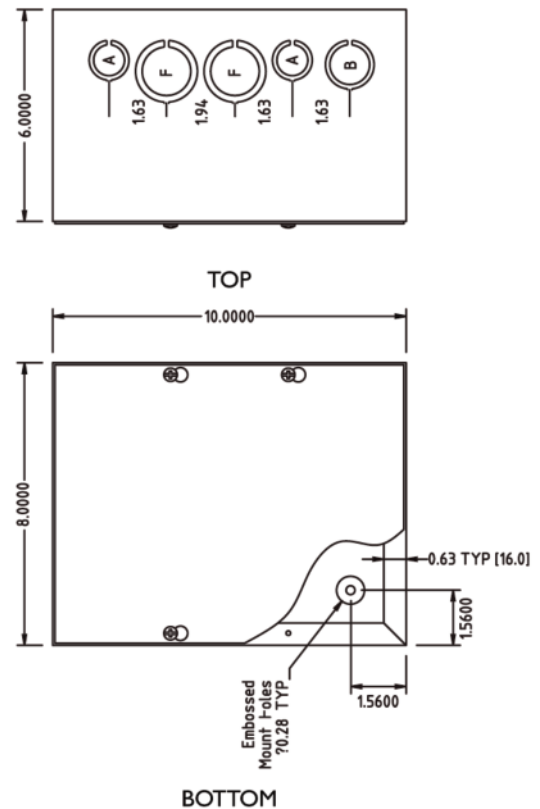
Temperature Range -40°C – 120°C

Humidity: 90% RH non-condensing (transport and storage in protective container)

Construction

Made of 16 gauge steel

Meets NEMA/EEMAC Type 1 requirements



ELECTRICAL

Input Power

277 VAC

Rated Primary Current: 7.3 A

Rated Frequency: 60 Hz

Output

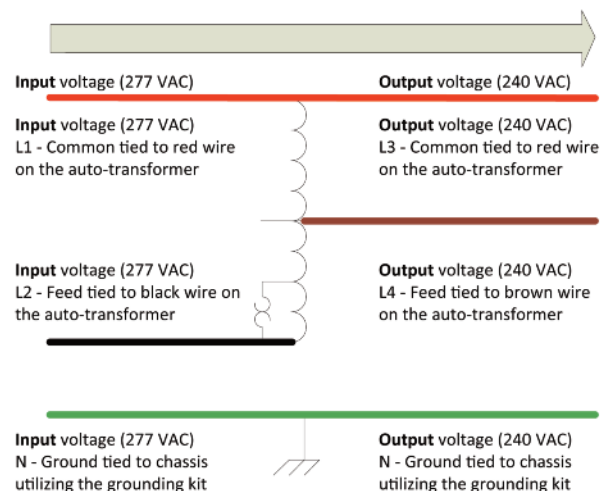
240 VAC

2 KVA

Efficiency

Quiescent Power = .78W

99.2% @ 277 VAC input; 1600W output



Rev. 022513

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