

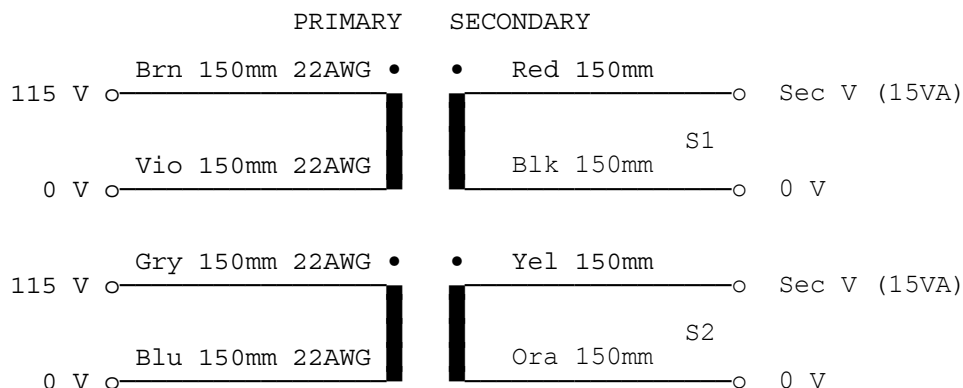


TOROID International Ltd.

Issue. 2
28/11/02

Data Sheet for TA range 30VA General Purpose Toroidal Transformers.

Schematic



Primary

Dual primary winding for connection in series or parallel only

Input Voltage: 115 or 230v ± 10% 50/60Hz.

DC resistance: 2x 42.0 Ohms ± 15% @ 20 deg.C

Magnetising current: 3.5mA approx.@ 230v 50Hz (7.0mA approx. @ 115v 50Hz)

Termination

All leads Tri-Rated UL1015 style cable rated 600v /105°C VW-1

Primary leads double insulated with PVC sleeving for a minimum of 20mm.

Lead lengths ± 5mm approx. All leads ends tinned to 6 mm.

Pri/Sec leads 0°

Losses

Iron loss : 0.37 Watts approx.

Copper loss: 4.9 Watts Approx.

Efficiency : 85.0% typical

Temperature rise: 42°C approx.

Ambient rated: 40°C

Temperature Class

Winding wire: Class H (180°C)

Insulation system: Class B (130°C)

Leadout insulation: Class A (105°C)

Overall: Class A (105°C)

| Farnell Part No. | On Load Sec V | Rated amps per Sec | Off load Sec V | Sec Flex Gauge | Sec Ohms @ 20°C. | TI Part No. | UL Part No. |
|------------------|---------------|--------------------|----------------|----------------|------------------|-------------|-------------|
| 306-8596 | 6 | 2.50 | 6.9 | 22 AWG | 0.20 | TA030/06 | TI-69040-ME |
| 306-8602 | 9 | 1.67 | 10.3 | 22 AWG | 0.43 | TA030/09 | TI-69041-ME |
| 306-8614 | 12 | 1.25 | 13.9 | 22 AWG | 0.90 | TA030/12 | TI-69042-ME |
| 306-8626 | 15 | 1.00 | 17.4 | 22 AWG | 1.41 | TA030/15 | TI-69043-ME |
| 306-8638 | 18 | 0.83 | 20.9 | 22 AWG | 2.09 | TA030/18 | TI-69044-ME |
| 306-8640 | 25 | 0.60 | 28.8 | 22 AWG | 3.66 | TA030/25 | TI-69045-ME |

Approx. dimensions/weight (mounting excluded)

Diameter 73.0 mm* * allow extra 5mm
 Height 31.0 mm* over leadout area
 Weight 0.48 kg

Supplied with

1x 50mm dished mounting plate
 2x 50mm neoprene mounting pads
 1x M5 x 40mm screw, nut & washer

Standards

Designed and manufactured in accordance with:

EN60742 (Non short circuit proof), EN60065 (IEC65), EN60950.

UL recognised to UL1411, 2601-1 and UL1950 under family approval file E115159

