



TOROID International Ltd.

Issue. 2
28/11/02

Data Sheet for TA range 500VA 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 1.12 Ohms ± 15% @ 20 deg.C

Magnetising current: 28.0mA approx.@ 230v 50Hz (56mA 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 : 2.76 Watts approx.

Copper loss: 24.4 Watts Approx.

Efficiency : 95.0% typical

Temperature rise: 56°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. |
|------------------|---------------|--------------------|----------------|----------------|------------------|-------------|-------------|
| ? | 25 | 10.00 | 26.3 | 16 AWG | .06 | TA500/25 | TI-69305-ME |
| ? | 30 | 8.33 | 31.4 | 16 AWG | .09 | TA500/30 | TI-69306-ME |
| ? | 35 | 7.14 | 36.6 | 18 AWG | .11 | TA500/35 | TI-69307-ME |
| ? | 40 | 6.25 | 41.8 | 18 AWG | .15 | TA500/40 | TI-69308-ME |
| ? | 45 | 5.56 | 47.0 | 18 AWG | .19 | TA500/45 | TI-69309-ME |
| ? | 50 | 5.00 | 52.1 | 18 AWG | .23 | TA500/50 | TI-69310-ME |
| ? | 55 | 4.55 | 57.7 | 18 AWG | .29 | TA500/55 | TI-69311-ME |

Approx. dimensions/weight (mounting excluded)

Diameter 136.0 mm* * allow extra 5mm
 Height 59.0 mm* over leadout area
 Weight 4.30 kg

Supplied with

1x 112mm dished mounting plate
 2x 110mm neoprene mounting pads
 1x M8 x 75mm 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

