

# Toroidal Transformers

## General Purpose



RoHS  
Compliant



### Primary

Dual primary winding for connection in series or parallel only

Input Voltage : 115V or 230V  $\pm 10\%$  50/60Hz.

DC Resistance :  $2 \times 1.12\Omega \pm 15\%$  @ 20°C

Magnetising Current : 28mA 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  $\pm 5$ mm approx. All leads ends tinned to 6mm.

Pri/Sec leads : 0°

### 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)

### Standards

Designed and manufactured in accordance with : EN61558-1 / EN61558-1/A1 / EN61558-2-4 or EN61558-2-6

UL recognised under family approval E115159 to UL1411, UL60601-1, UL60065-1

### Losses

Iron Loss : 2.76 Watts Approx.

Copper Loss : 24.4 Watts Approx.

Efficiency : 95% typical

Temperature rise : 53°C approx.

Ambient rated : 40°C

### Supplied with

1× 112mm dished mounting plate

2× 110mm neoprene mounting pads

1× M8 × 75mm screw, nut and washer

### Approx. Dimensions / Weight (mounting excluded)

Diameter : 139mm (allow extra 5mm)

Height : 59mm (over leadout area)

Weight : 4.3kg

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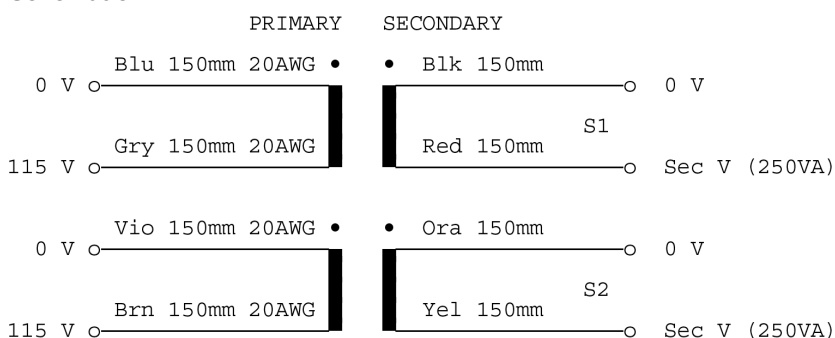


### Specification Table

Part Number	On Load Sec V	Rated Amps per Sec	Off load Sec V	Sec Flex Gauge	Sec $\Omega$ @ 20°C
MCTA500/25	25	10	26.3	16 AWG	0.06
MCTA500/30	30	8.33	31.4	16 AWG	0.09
MCTA500/35	35	7.14	36.6	18 AWG	0.12
MCTA500/45	45	5.56	47	18 AWG	0.19
MCTA500/50	50	5	52.1	18 AWG	0.24
MCTA500/55	55	4.55	57.7	18 AWG	0.3

### Wire Diagram

#### Schematic



### Part Number Table

Description	Part Number
Toroidal Transformer, 500VA, 2 × 25V	MCTA500/25
Toroidal Transformer, 500VA, 2 × 30V	MCTA500/30
Toroidal Transformer, 500VA, 2 × 35V	MCTA500/35
Toroidal Transformer, 500VA, 2 × 45V	MCTA500/45
Toroidal Transformer, 500VA, 2 × 50V	MCTA500/50
Toroidal Transformer, 500VA, 2 × 55V	MCTA500/55

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