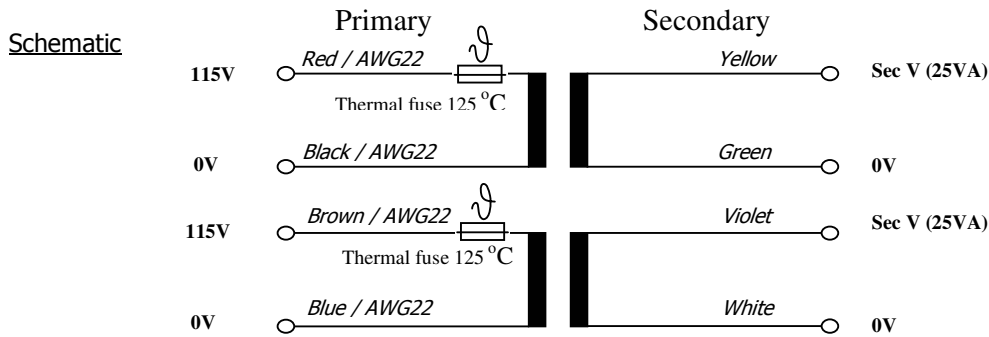


### Data sheet for General Purpose Toroidal Transformers – 50VA Encapsulated Series



#### Primary

Dual Primary winding for connection in series or parallel only  
 Input voltage : 115V or 230V +/-10% 50/60 Hz  
 Dc resistance : 2x 29Ohms +/-20% @ 20 °C  
 Magnetising current : 4,3mA @ primary 230V 50Hz  
 8,6mA @ primary 115V 50Hz

#### Losses

Iron loss : 0,512 Watts  
 Copper loss : 7,6Watts  
 Efficiency : 85% Typical  
 Calculated Temperature rise : 52 °C  
 ( In open environment )  
 Maximum rated ambient : 40 °C

#### Termination

All leads UL1015 or UL1569 rated 300V / 105°C  
 Primary leads Double insulated with Insulation Class B tubes, minimum length 20mm  
 Lead length Tolerance +/-10mm  
 all lead ends 6mm tinned  
 All Leads exit close to the outer top edge,

#### Temperature ratings

Winding wire : Class H (180 °C)  
 Insulation System : Class B (130 °C)  
 Leads insulation : Class A (105 °C)  
 Encapsulation : Class A (105 °C)  
 Overall : Class A  
 Degrees of protection : IP20

| Ordering code   | Art No.   | Load voltage | No load voltage | Rated current | Secondary wire gauge | Sec. DC resistance Ohms @ 20 °C +/-20% |
|-----------------|-----------|--------------|-----------------|---------------|----------------------|--|
| TI-044207-ME-EC | EC0050/6  | 2 x 6V       | 2 x 6,9V        | 2 x 4,17A     | AWG16                | 2 x 0,10                               |
| TI-044208-ME-EC | EC0050/9  | 2 x 9V       | 2 x 10,3V       | 2 x 2,78A     | AWG18                | 2 x 0,21                               |
| TI-044209-ME-EC | EC0050/12 | 2 x 12V      | 2 x 13,7V       | 2 x 2,08A     | AWG20                | 2 x 0,38                               |
| TI-044210-ME-EC | EC0050/15 | 2 x 15V      | 2 x 17,1V       | 2 x 1,67A     | AWG20                | 2 x 0,55                               |
| TI-044211-ME-EC | EC0050/18 | 2 x 18V      | 2 x 20,4V       | 2 x 1,39A     | AWG20                | 2 x 0,73                               |
| TI-044212-ME-EC | EC0050/25 | 2 x 25V      | 2 x 28,6V       | 2 x 1A        | AWG22                | 2 x 1,61                               |

#### Approx. Dimensions

Diameter : 82mm  
 Height : 39mm  
 Center Hole suitable for M4 screw.  
 Weight : 1,0kg

#### 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,UL1950.

#### Marking

Model number xxxxxxxx ta40/A IP20  
 Prim. 2 x 115V 50Hz ( lead colours ) Fuse XXAT  
 Thermal fuse 125 °C  
 Sec. 2 x rated voltage and rated current Amp (ref. Above table) Fuse XXAT  
 Art. No. EC0050/XX

