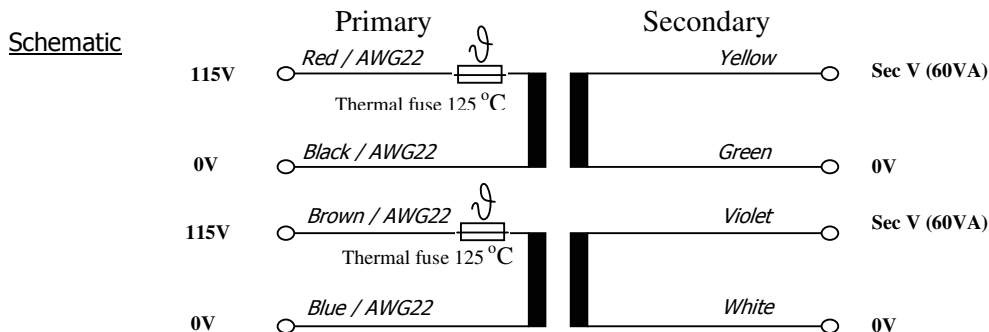


## Data sheet for General Purpose Toroidal Transformers – 120VA Encapsulated Series



### Primary

Dual Primary winding for connection in series or parallel only  
 Input voltage : 115V or 230V +/-10% 50/60 Hz  
 Dc resistance : 2 x 6,9Ohms +/-20% @ 20 °C  
 Magnetising current : 9,2mA @ primary 230V 50Hz  
 18,4mA @ primary 115V 50Hz

### Losses

Iron loss : 1,09 Watts  
 Copper loss : 11,25Watts  
 Efficiency : 91% Typical  
 Calculated Temperature rise : 50 °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-044220-ME-EC	EC0120/12	2 x 12V	2 x 13,2V	2 x 5A	AWG16	2 x 0,13
TI-044221-ME-EC	EC0120/15	2 x 15V	2 x 16,4V	2 x 4A	AWG16	2 x 0,2
TI-044222-ME-EC	EC0120/18	2 x 18V	2 x 19,7V	2 x 3,33A	AWG18	2 x 0,3
TI-044223-ME-EC	EC0120/25	2 x 25V	2 x 27,4V	2 x 2,4A	AWG18	2 x 0,58
<b>TI-044224-ME-EC</b>	<b>EC0120/35</b>	<b>2 x 35V</b>	2 x 38.4V	2 x 1,71A	AWG18	2 x 1,1
TI-044225-ME-EC	EC0120/55	2 x 55V	2 x 60.1V	2 x 1,09A	AWG18	2 x 2,7

### Approx. Dimensions

Diameter : 104mm  
 Height : 52mm  
 Center hole suitable for M5 screw  
 Weight : 1,75kg

### 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 ) 2xFuse XXAT  
 2xThermal fuse 125 °C  
 Sec. 2 x rated voltage and rated current Amp (ref. Above table) (lead colours) 2xFuse XXAT  
 Art. No. EC0120/XX

