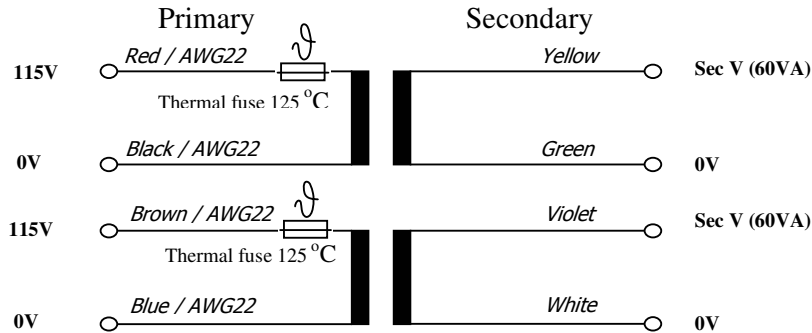


Data sheet for General Purpose Toroidal Transformers – 120VA Economy Series

Schematic



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

Termination

All leads UL1569/1015 / 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 by at the outer top edge,

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

Temperature ratings

Winding wire : Class H (180 °C)
 Insulation System : Class B (130 °C)
 Leads insulation : Class A (105 °C)

Degrees of protection : IP00

Ordering Code	Art. No.	Load voltage	No load voltage	Rated current	Secondary wire gauge	Sec. DC resistance Ohms @ 20 °C +/-20%
TI-044220-ME-ES	ES0120/12	2 x 12V	2 x 13,2V	2 x 5A	AWG16	2 x 0,12
TI-044221-ME-ES	ES0120/15	2 x 15V	2 x 16,5V	2 x 4A	AWG16	2 x 0,18
TI-044222-ME-ES	ES0120/18	2 x 18V	2 x 19,8V	2 x 3,33A	AWG18	2 x 0,28
TI-044223-ME-ES	ES0120/25	2 x 25V	2 x 27,4V	2 x 2,4A	AWG18	2 x 0,53
TI-044224-ME-ES	ES0120/35	2 x 35V	2 x V	2 x 1,71A	AWG18	2 x
TI-044225-ME-ES	ES0120/55	2 x 55V	2 x 59,6V	2 x 1,09A	AWG22	2 x 2,1

Approx. Dimensions

Diameter : 95mm
 Inner Diameter : 29mm
 Height : 45mm
 Weight : 1,5kg

Mounting material

1 x Metal washer 70mm
 2 x Rubber pad 70mm
 1 x M6 Screw, nut and washer

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 and E20244 to UL1411,UL60601-1,UL1950.

Marking

Model number xxxxxxxx ta40/A IP00
 Prim. 2 x 115V 50Hz Fuse XXAT
 Thermal fuse 125 °C
 Sec. 2 x rated voltage and rated current Amp Fuse XXAT
 Art. No. ES0120/XX

