

Datasheet

**RS Pro 2 Output Toroidal Transformer, 50VA, 2 x 55V ac**

RS Stock No: **671-8971**



## Product Details

RS Pro 2 output toroidal transformer is a small size and low weight with traditional stacked laminated transformers. It has both primary and secondary windings connected in series or parallel. This transformer has primary voltage rating of 115 V ac, 230 V ac, secondary voltage rating of 2 x 55 V ac and power rating of 50 VA. Toroidal transformer meets EN 61558, IEC 742, UL 506, UL 1411, UL 478 and CE certified.

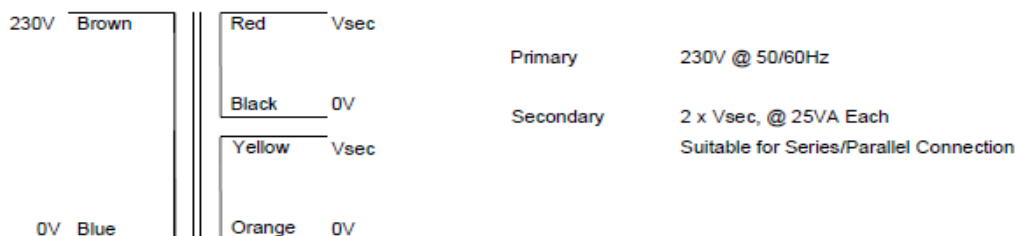
## Features and Benefits

- Low induced noise (hum)
- Low level of radiated magnetic field
- Flexible leadouts for ease of installation
- 100% electrical and flash testing

**Specifications:**

Diameter	80 mm
Dimensions	80 (dia.) x 33 mm
Height	33 mm
Maximum Operating Frequency	60 Hz
Minimum Operating Frequency	50 Hz
Number of Outputs	2
Power Rating	50 VA
Primary Voltage Rating	230 V ac
Secondary Current	0.455 A
Secondary Voltage Rating	2 x 55 V ac
Termination Type	Copper Conductor
Weight	740 g
Construction	Open
Standards Met	UL 506, IEC 61558 Class II, EN 61558 Class II, VDE0570 Class II, RoHS Compliant

**Open Style, with leads, 230V Primary, 50VA**



RS Code No.	RS Part No.	Full Load Vsec [V]	Rated Current per Sec [A]	No Load Vsec [V]	DC resistance [Ohms] @ 25° C
671-8959	81534-P1S2	2x6	4.167	2 x 6.82	2 x 0.0978
671-8952	81535-P1S2	2x9	2.778	2 x 10.29	2 x 0.2029
671-8956	81536-P1S2	2x12	2.083	2 x 13.63	2 x 0.3783
671-8965	81522-P1S2	2x15	1.667	2 x 17.10	2 x 0.6079
671-8968	81537-P1S2	2x18	1.389	2 x 20.57	2 x 0.8205
671-8962	81538-P1S2	2x25	1.000	2 x 28.50	2 x 1.6018
671-8971	81539-P1S2	2x55	0.455	2 x 62.70	2 x 7.8847

**Primary Winding**

Input Voltage : 230V±10 % @ 50/60Hz  
 DC Resistance @25°C = 50 Ohms (approx)  
 Magnetising Current @ 230V = 75.0mA (approx)  
 Magnetising Current @ 253V = 175.0mA (approx)

**Losses**

Iron Losses 4.50 Watts (approx)  
 Copper Losses 8.90 Watts (approx)

**Temperature Class**

Winding Wire (Primary & Secondary). Class H (180° C)  
 Insulation between input and output. Class B (130° C)  
 Connection lead insulation. Class A (105° C)

**Standards**

Designed,manufactured and tested according to the requirements of:  
 EN61558 Class II, Non-Short-Circuit Proof  
 VDE0570 Class II  
 IEC61558 Class II  
 UL506

**Physical Data**

Approximation Dimension Diameter 80mm\*  
 Height 33mm  
 \* Measured away from leadout bulge, allow extra 4mm at leads  
 Approximate weight 0.74 Kg

**Terminations**

**Primary** Flexible equipment wire, 105°C PVC, 7/0.20 (0.22mm <sup>2</sup>)  
 Double Insulated over entire length with PVC sleeves  
 150mm Long, with 10mm stripped ends.

**Secondary** Solid copper conductors (extension of winding wire)  
 insulated over their entire length with PVC tubing  
 150mm Long, with 10mm tinned ends.