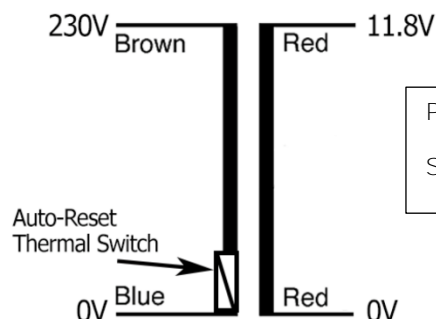


Toroidal Transformer Data Sheet

12V Low Voltage Lighting, Open Style, with Leads.
230V Primary, 11.8V Secondary for Halogen lamps.

High quality open style toroidal transformers with a single 230V/50-60Hz primary winding. Single secondary winding provides 11.8V \pm 1.5% at nominal input and rated load.



Primary 230V @ 50-60Hz

Secondary: 11.8V at rated load



Nuvotem Part No.	91931-P1S1	91932-P1S1	91933-P1S1	91934-P1S1
Power Rating [VA]	50	105	150	200
Regulation [%]	15	11	8.5	7.6
Temperature Rise [K]	46	49	48	51
Diameter [mm] *	80	93	105	105
Height [mm] **	33	46	42	50
Weight [kg]	0.65	1.05	1.35	1.75
Primary Leads	Flex AWG 22	Flex AWG 22	Flex AWG 22	Flex AWG 22
Secondary Leads ***	Solids	Solids	Flex AWG 14	Flex AWG 12
Mounting Discs Diam. [mm]	50mm	70mm	90mm	90mm

* Allow extra 5mm diameter where leads exit transformer, ** Allow extra 4mm height for mounting discs.

Primary Winding	207V–253V (230V +/- 10%) @ 50/60Hz, with Automatic-Reset thermal switch internally wired in series with primary winding, to provide overload protection.		
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	Approved to UL506 & UL5085 : File E215495 Approved to EN61558-1, EN61558-2-6 : DEKRA Certificate 2161054.01 Conforms to EN60065, VDE0550, BS415.		
Primary Leads	Tri-Rated Cables to CSA type TEW , UL1015, 150mm Long, 10mm stripped ends. Double-insulated over entire length with 105°C PVC tubings.		
Secondary Leads *** (See Table Above)	<i>Either</i> Tri-Rated Cables to CSA type TEW , UL1015, 150mm Long, 10mm stripped ends. <i>or,</i> Solid copper conductors (extension of winding wire), insulated over their entire length with 105°C PVC tubing. 150mm Long, 10mm tinned ends.		
Mounting Hardware	Each transformer is supplied with a mounting kit, comprising: Neoprene Insulating disc 2 pieces (see table above for diameter) Dished Steel Washer 1 piece (see table above for diameter)		