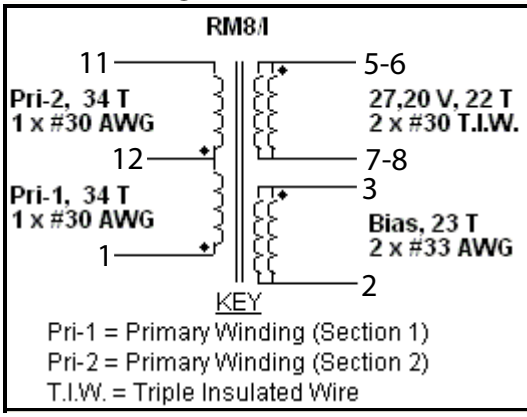
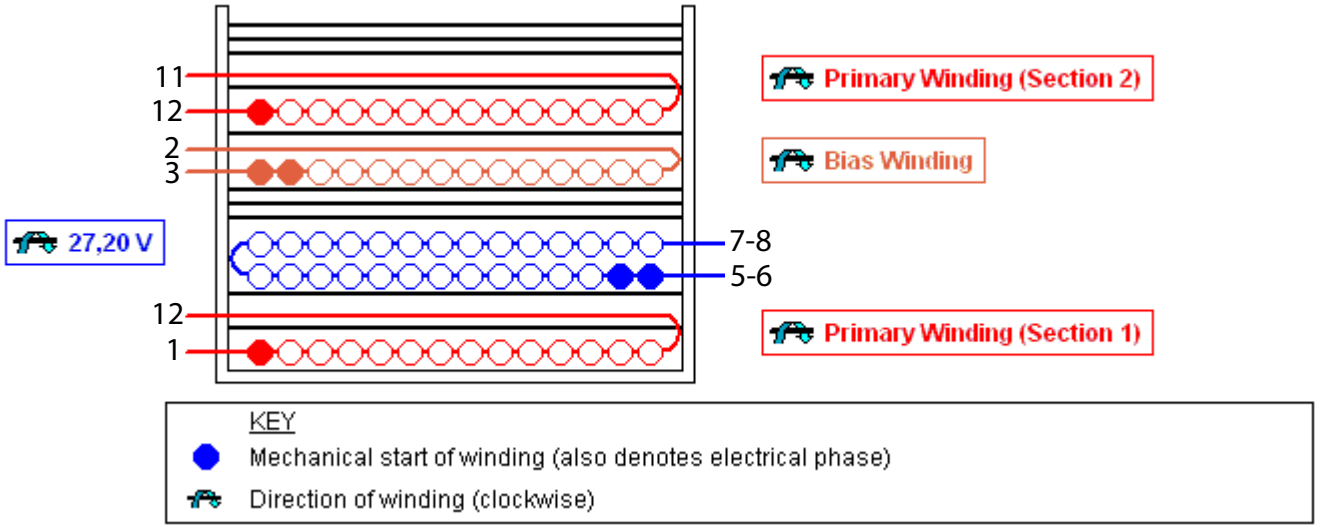
Electrical Diagram



Mechanical Diagram



Winding Instruction

Primary Winding (Section 1)

Start on pin(s) 3 and wind 34 turns (x 1 filar) of item [7] in 1 layer(s) from left to right. Add 1 la yer of tape, item [4], in between each primary wind ing layer. On the final layer, spread the winding evenly acros s entire bobbin. Finish this winding on pin(s) 2.

Add 1 layer of tape, item [3], for insulation.

Secondary Winding

Start on pin(s) 7 and wind 22 turns (x 2 filar) of item [8]. Spread the winding evenly across entire b obbin. Wind in same rotational direction as primary winding. Finish this winding on pin(s) 6.

Add 3 layers of tape, item [3], for insulation.

Bias Winding

Start on pin(s) 5 and wind 23 turns (x 2 filar) of item [9]. Wind in same rotational direction as prim ary winding. Spread the winding evenly across entir e bobbin. Finish this winding on pin(s) 4.

Add 1 layer of tape, item [3], for insulation.

Primary Winding (Section 2)

Start on pin(s) 2 and wind 34 turns (x 1 filar) of item [7] in 1 layer(s) from left to right. Add 1 la yer of tape, item [4], in between each primary wind ing layer. On the final layer, spread the winding evenly acros s entire bobbin. Finish this winding on pin(s) 1.

Add 3 layers of tape, item [3], for insulation.

Core Assembly

Assemble and secure core halves. Item [1].

Flux-Band

Construct a flux band by wrapping a single shorted turn of item [5] around the outside of windings and core halves with tight tension. Make an electrical connection to pin(s) 1 using wire.

Add 3 layers of tape, item [3], for insulation.

Varnish

Dip varnish uniformly in item [6]. Do not vacuum im pregnate.

Comments

1. For non margin wound transformers use triple ins ulated wire for all secondary windings.

Materials

Item	*Description*
[1]	**Core: RM8/I, NC-2H (Nicera) or Equivalent, gapped for ALG of 245 nH/T²**
[2]	**Bobbin: Generic, 5 pri. + 2 sec.**
[3]	**Barrier Tape: Polyester film [1 mil (25 µm) base thickness], 10,00 mm wide**
[4]	**Separation Tape: Polyester film [1 mil (25 µm) base thickness], 10,0 mm wide**
[5]	**Copper Tape: 2 mil thick**
[6]	**Varnish**
[7]	**Magnet Wire: 30 AWG, Solderable Double Coated**
[8]	**Triple Insulated Wire: 30 AWG**
[9]	**Magnet Wire: 33 AWG, Solderable Double Coated**

Electrical Test Specifications

Parameter	*Condition*	*Spec*
Electrical Strength, VAC	**60 Hz 1 second, from pins 1,2,3,4,5 to pins 6,7.**	**3000**
Nominal Primary Inductance, µH	**Measured at 1 V pk-pk, typical switching frequency, between pin 1 to pin 3, with all other Windings open.**	**1117**
Tolerance, ±%	**Tolerance of Primary Inductance**	**10,0**
Maximum Primary Leakage, µH	**Measured between Pin 1 to Pin 3, with all other Windings shorted.**	**27,92**

Although the design of the software considered safety guidelines, it is the user's responsibility to ensure that the user's power supply design meets all applicable safety requirements of user's product.