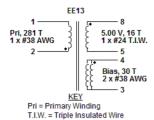
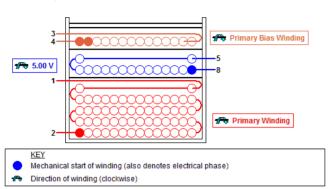
Transformer A40b 18-44





▼ Winding Instruction

Primary Winding

Start on pin(s) 2 and wind 281 turns (x 1 filar) of item [5]. in 5 layer(s) from left to right. Winding direction is clockwise. At the end of 1st layer, continue to wind the next layer from right to left. At the end of 2nd layer, continue to wind the next layer from left to right. Continue the same way as in previous 2 layers. On the final layer, spread the winding evenly across entire bobbin. Finish this winding on pin(s) 1.

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

Secondary Winding

Start on pin(s) 8 and wind 16 turns (x 1 filar) of item [6]. Spread the winding evenly across entire bobbin. Winding direction is clockwise. Finish this winding on pin(s) 5.

Add 2 layers of tape, item [3], for insulation.

Primary Bias Winding

Start on pin(s) 4 and wind 30 turns (x 2 filar) of item [5]. Winding direction is clockwise. Spread the winding evenly across entire bobbin. Finish this winding on pin(s) 3.

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

Core Assembly

Assemble and secure core halves. Item [1].

Varnish

Dip varnish uniformly in item [4]. Do not vacuum impregnate.

▼ Comments

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

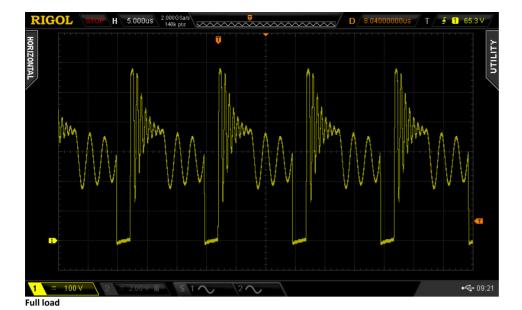
▼ Materials

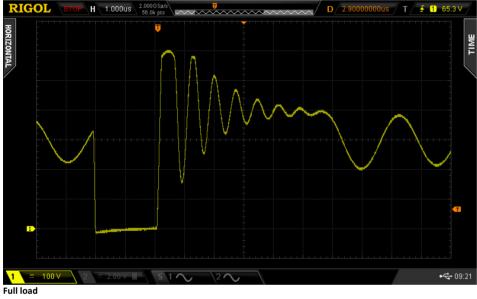
Item	Description	
[1]	Core: EE13, Yes, gapped for ALG of 29 nH/T ²	
[2]	Bobbin: Generic, 4 pri. + 4 sec.	
[3]	Barrier Tape: Polyester film [1 mil (25 μm) base thickness], 7.60 mm wide	
[4]	Varnish	
[5]	Magnet Wire: 38 AWG (0.1 mm), Solderable Double Coated	
[6]	Triple Insulated Wire: 24 AWG (0.55 mm)	

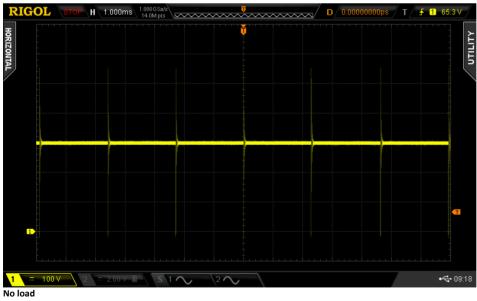
▼ Electrical Test Specifications

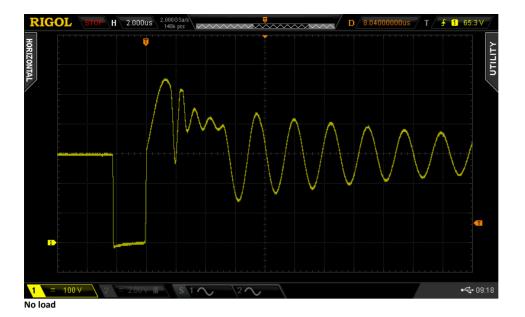
Parameter	Condition	Spec
Electrical Strength, VAC	60 Hz 1 second, from pins 1,2,3,4 to pins 5,8.	3000
Nominal Primary Inductance, µH	Measured at 1 V pk-pk, typical switching frequency, between pin 1 to pin 2, with all other Windings open.	2266
Tolerance, ±%	Tolerance of Primary Inductance	10.0
Maximum Primary Leakage, μH	Measured between Pin 1 to Pin 2, with all other Windings shorted.	measured leakage: ~250uH

XT2 - 200VAC VDS waveforms // full load - 700mA @ 5.5VDC // no load - <5mA



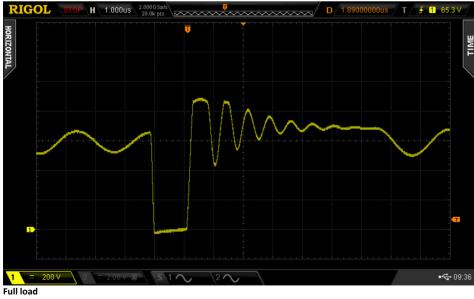


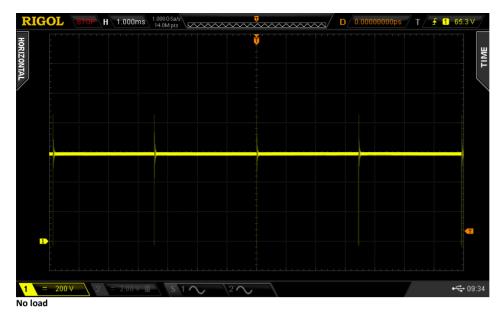


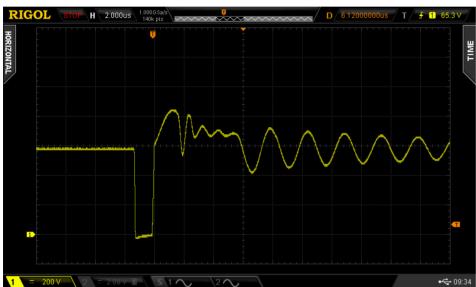


XT2 - 400VAC VDS waveforms // full load - 700mA @ 5.5VDC // no load - <5mA

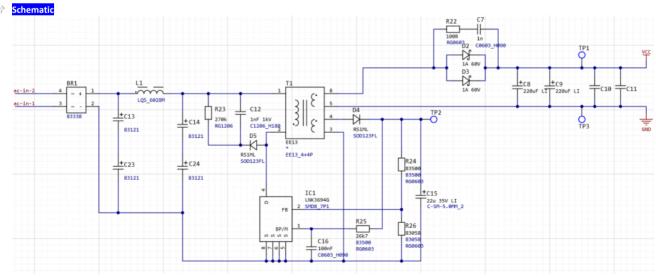








No load



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