

RECTANGULAR ELECTROMAGNET, TYPE 3

Catalog No.:
 Customer:
 Revision: Alumium vwire

Design No.:
 Designer:
 Date: 10/4/07

COIL SPECIFICATIONS

Wire Size:	(1) AWG 10 H (Al)	Turns:	1470
Method:	Random Wound	Coil Buildup / Bulge:	52.8% / 5%
Resistance:	18.7 Ohms 20°C	Wire Weight:	115 Lbs
Wiring:	2 Coils in Series		

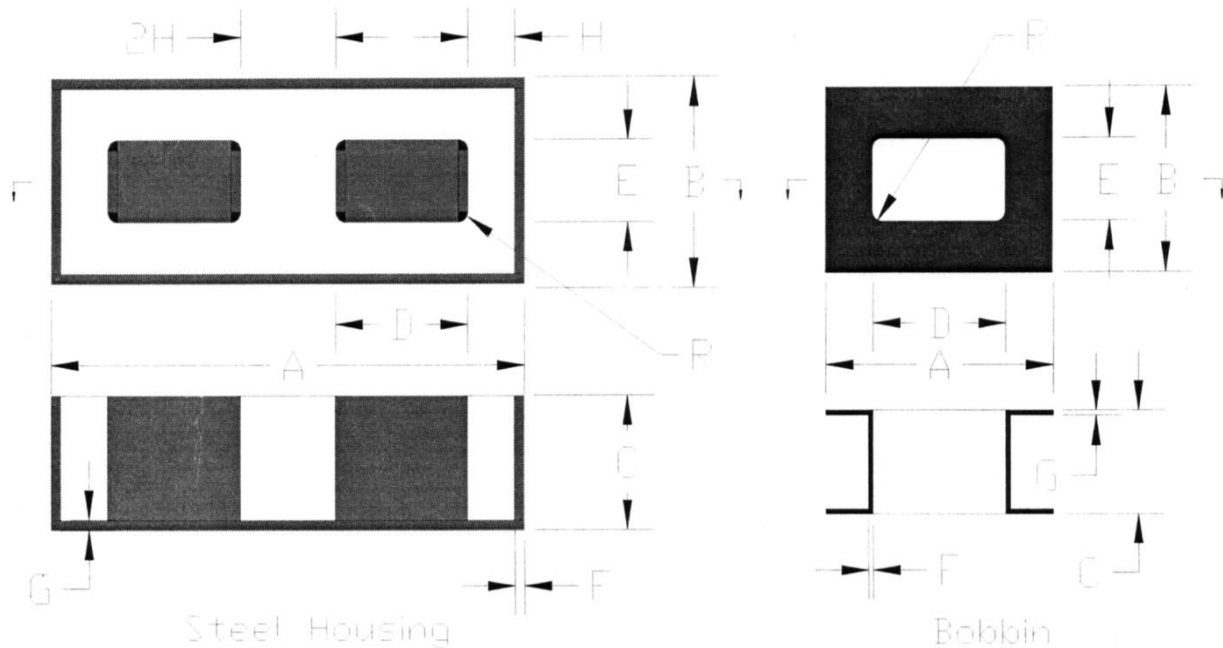
ANALYSIS

Input:	230 V.DC	Duty Cycle:	100%
Force:	49,591 Lbs	Wattage / Current:	1412 Watts / 6.14 Amps
Temp. Rise:	104°C	Amp-Turns:	18,046 AT
Flux Density:	101700 - (146588 - 103918) - 103918 Lines/Sqin		

ASSUMPTIONS (SETTINGS)

Ambient Temp:	25°C	Experimental Force Factor:	1.00
Housing:	Constructed Housing (potted with filled-epoxy)		
Armature:	1" Thickness, Flux Density: (146588 - 103918) Lines/Sqin		
Air Gap:	.032" Gap between Magnet and Armature		
Air Gap:	.010" Gap between CenterPole and Base		
Air Gap:	.010" Gap between OuterShell and Base		

DIMENSIONS



Housing Dimensions:

A: 96.000" B: 14.630" C: 11.000" D: 37.000" E: 3.000" F: 1.000" G: 1.000" R: 0.032"

Bobbin Dimensions:

A: 46.250" B: 12.250" C: 9.750" D: 37.250" E: 3.250" F: 0.375" G: 0.375" R: 0.035"

Calculated Data is for reference only without warranty of any kind