

F144

Field Coil Motor

Specifications:

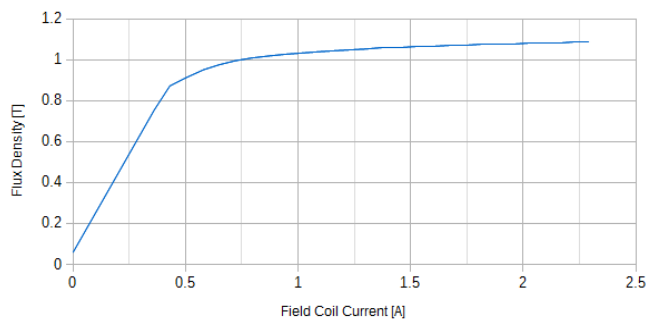


Parameter	Min	Typ	Max	Unit
Magnetic Gap				
Height		14		mm
Width		1.3		mm
Inner Diameter		30		mm
Outer Diameter		32.6		mm
Flux Density (FC @1A)	0.95	1.03	1.05	T
Field Coil				
Supply Voltage - CV	5	12	30	V
Supply Current - CC	0.350	1	2.2	A
Rdc (25 degC)	13	14	14.7	ohms
Wire Diameter (ECW 180C)		1		mm
Wire Turns		2600		turns
Inductance (1KHz)		400		mH
Temperature rise		0.08		degC/min
Flux Density Drift		-0.0025		T/degC
Steel Grade		1006		
Shorting Ring Copper Grade		T2/C110		
Frame Mounting				
4xM5 Inner mounting diameter		76		mm
4xM5 Outer mounting diameter		100		mm
Physical Dimensions				
Diameter		144		mm
Height		141		mm
Weight				kg

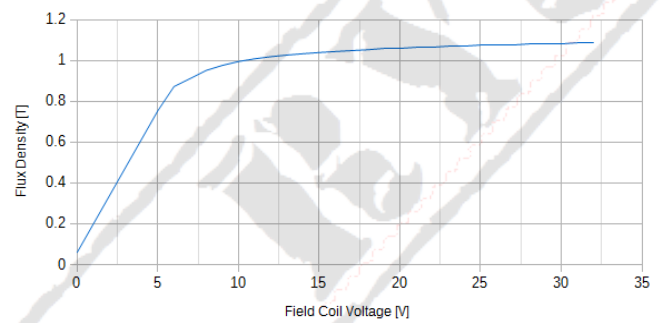
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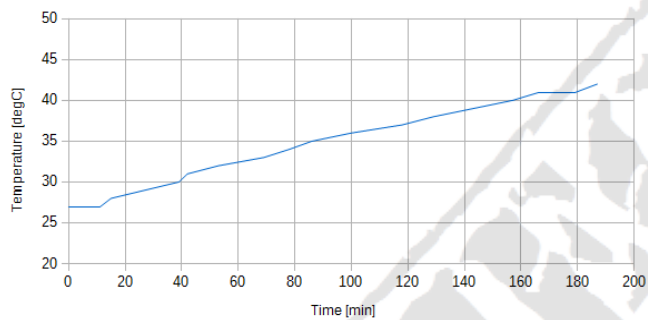
Flux Density vs Field Coil Current



Flux Density vs Field Coil Voltage



Magnetic Gap Temperature vs Time



Flux Density Drift vs Temperature

