VIf: Results

Lab 2: ECE432 – Variable Speed Drives

Lab Report

Name	Student ID	CCID	Lab Section

The following is what you are expected to hand-in one week (by 4:00pm) after completion of the lab. You only have to hand-in one copy per group. There is an assignment box in the ETLC atrium marked ECE432 lab. Please, staple everything together in this order:

- Use this page as your cover sheet. Make sure your names, student ID's, CCID's and lab section are visible in the table above. You need to obtain the signatures below after completing the laboratory exercises.
- Include the results sheet that you made all of your measurements on.
- The calculations showing your work for only one setpoint.
- The four required graphs.
- The answers to the post lab questions.

Lab 2 Results Sign-off

Instructor or TA signature
Clean-up
Instructor or TA signature

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DC Machine – Open Circuit Test

	Volts per RPM								
	Measurement	Units	Command Frequency (Hz)						
			70	60	45	30	15	10	5
Pocket-tach	Speed	(rpm)							
Fluke 43B	V _{ARM} DC	(V)							

AC Machine – Volts per Hertz

Setting			Powerflex -	Monitor File	Pocket-tach	Fluke 43B – Scope		
Approx. Load	Command Freq	Output Current	Output Voltage	Output Power	Output Powr Fctr	Speed	V _{ARM} DC	I DC ARM
	(Hz)	(A)	(V)	(kW)	(-)	(rpm)	(V _{DC})	(A _{DC})
No	70							
Full	60							
1/2	60							
No	60							
Full	45							
1/2	45							
No	45							
Full	30							
1/2	30							
No	30							
Full	15							
1/2	15							
No	15							
Full	10							
1/2	10							
No	10							
Full	5							
1/2	5							
No	5							

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