LAB REPORT 2

Pertemuan 1. Motor DC – Driver Motor

Nama : Dandy Zicky Divaldy

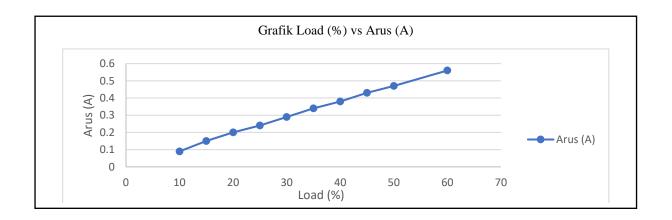
NIM : 20/459173/PA/19834

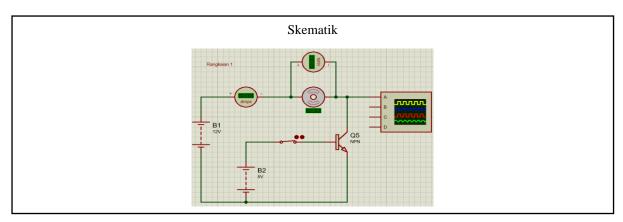
Tanggal : 6 September 2021

Asisten : Rizki Fajar Kurniawan

I. Transistor dan Motor DC

No	Tegangan Baterai (V)	Load	Arus (A)	Arah
		(%)		
1.	12	10	0.09	Clockwise
2.	12	15	0.15	Clockwise
3.	12	20	0.20	Clockwise
4.	12	25	0.24	Clockwise
5.	12	30	0.29	Clockwise
6.	12	35	0.34	Clockwise
7.	12	40	0.38	Clockwise
8.	12	45	0.43	Clockwise
9.	12	50	0.47	Clockwise
10.	12	60	0.56	Clockwise





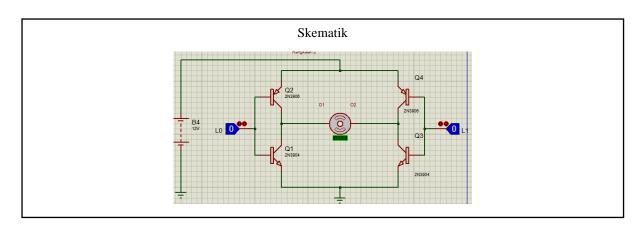


II. Arah Gerak Motor

No	L0	L1	Arah
1.	0	0	-
2.	0	1	Clockwise
3.	1	0	Counter Clockwise
4.	1	1	_

$$(L0 = 0, L1 = 1)$$

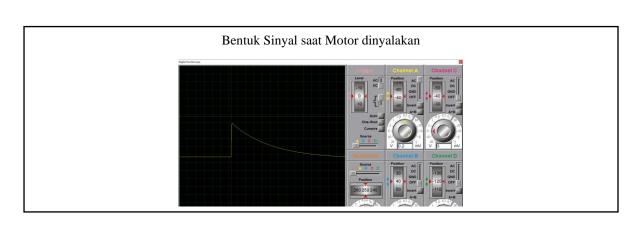
No	Tegangan (V)	Arus (A)	Arah
1.	1	0.04	Clockwise
2.	2	0.17	Clockwise
3.	3	0.29	Clockwise
4.	4	0.42	Clockwise
5.	5	0.54	Clockwise
6.	6	1.33	Clockwise
7.	7	2.12	Clockwise
8.	8	2.70	Clockwise
9.	9	3.22	Clockwise
10.	12	4.96	Clockwise

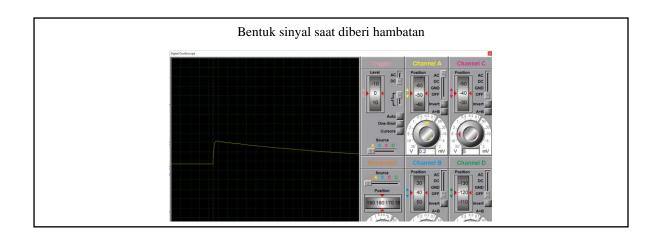


III. Merangkai IC Driver Motor

No	E1	I1	I2	O1	O2	Arah
1.	0	0	0			
2.	0	0	1			
3.	0	1	0			
4.	0	1	1			
5.	1	0	0			
6.	1	0	1			
7.	1	1	0			
8.	1	1	1			

No	Tegangan (V)	Arus (A)	Arah
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			





IV. Tugas

No	E1	I1	I2	O1	O2	Arah
1.	0	0	0			
2.	0	0	1			
3.	0	1	0			
4.	0	1	1			
5.	1	0	0			
6.	1	0	1			
7.	1	1	0			
8.	1	1	1			

V. Pertanyaan

- 1. Apa bedanya menggunakan transistor dan tanpa transistor?
- 2. Bagaimana cara kerja H Bridge mengatur arah gerak motor?
- 3. Bagaimana bentuk sinyal tegangan motor saat terhubung ke driver
- 4. Apa itu enable? Kenapa diperlukan?
- 5. Apa pengaruh penggunaan 1 motor dan 2 motor pada driver 1293D?