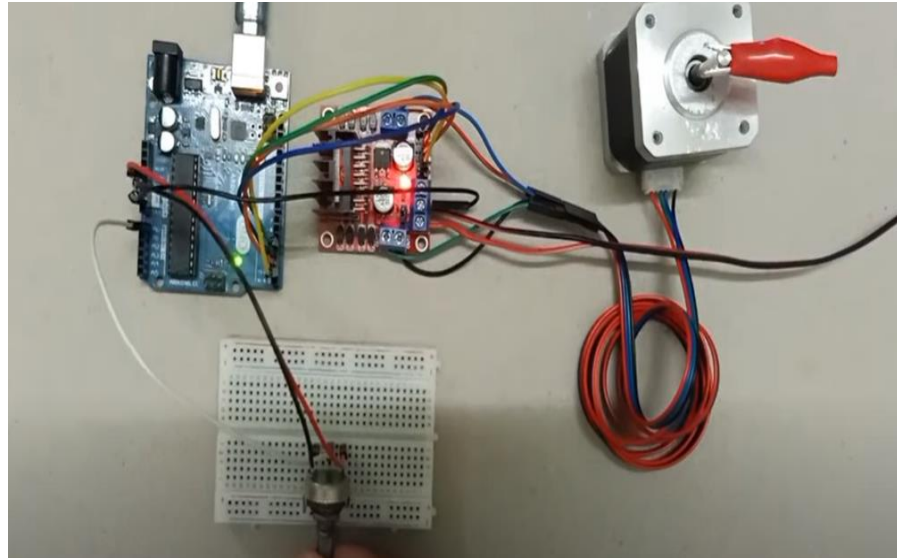


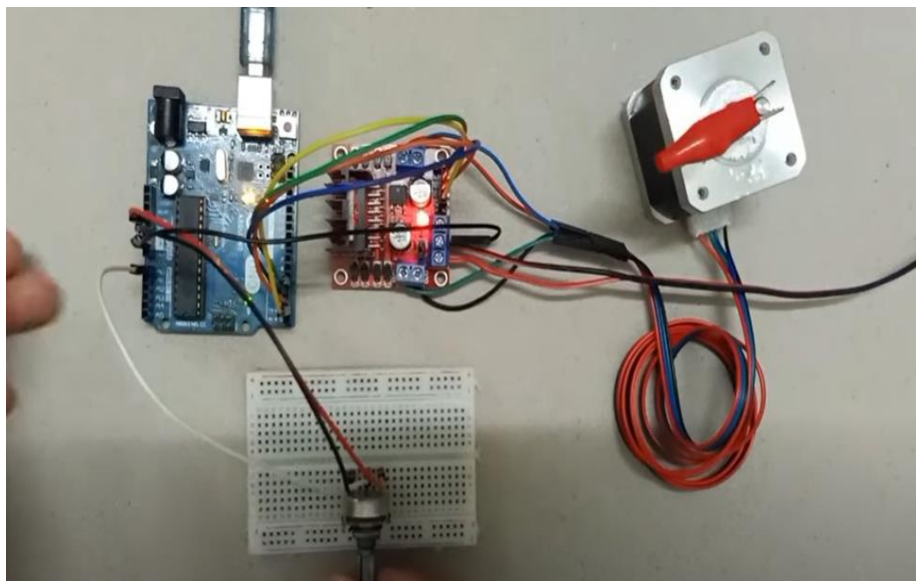
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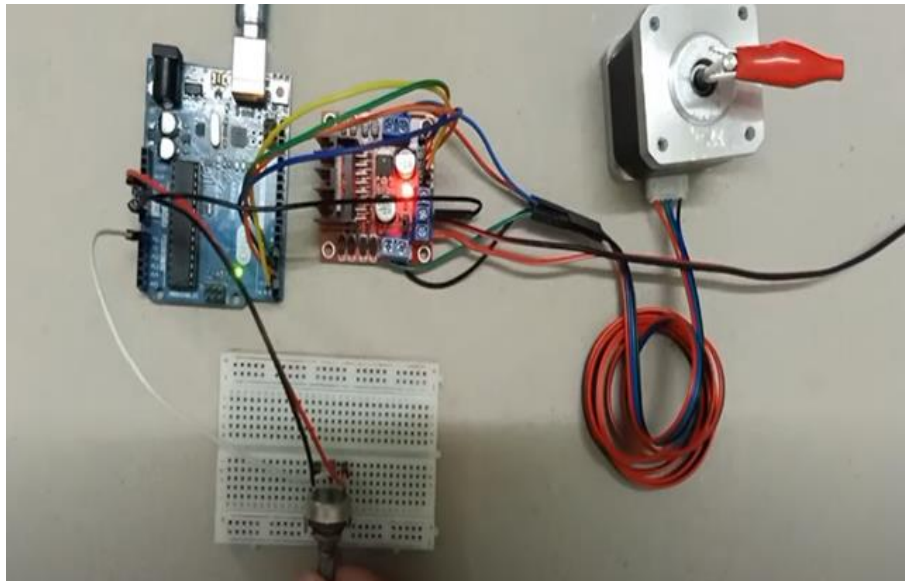
## LAMPIRAN



Pada saat motor stepper NEMA-17 bergerak 180 derajat



Pada saat motor stepper NEMA-17 bergerak 360 derajat



Pada saat motor stepper NEMA-17 bergerak 0 derajat



Pemeriksaan motor stepper pada saat pengasapan ikan salai



Alat pengasapan ikan salai otomatis menggunakan panel surya



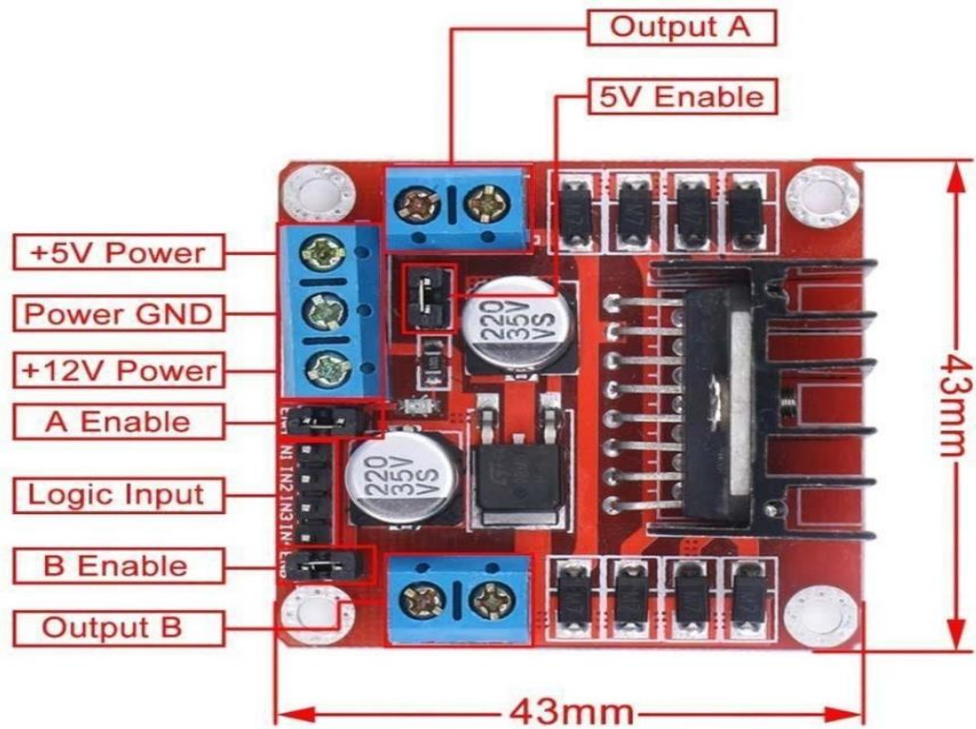
Media pembakaran untuk pengasapan ikan salai



Pada saat proses pengasapan ikan salai dalam oven



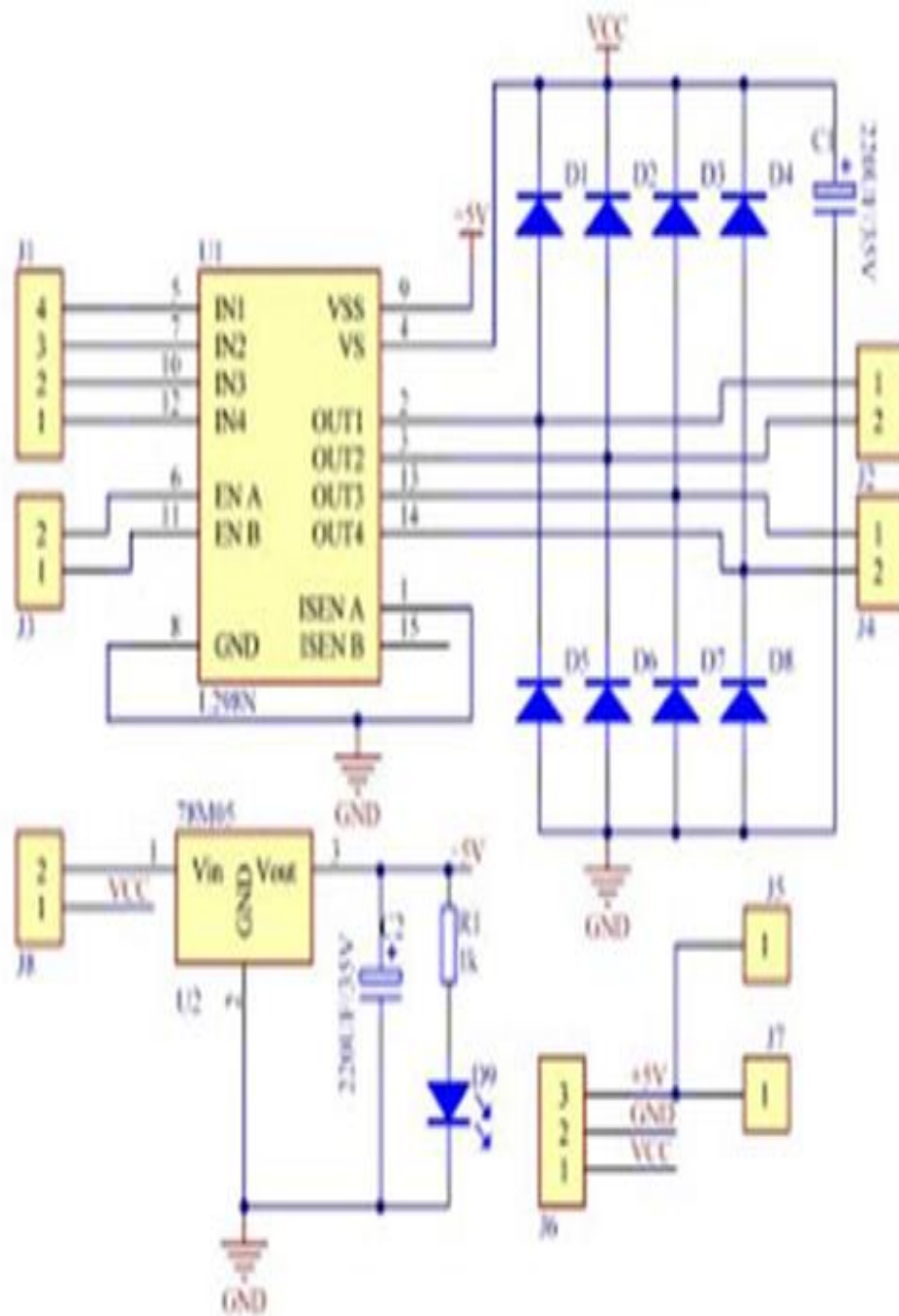
Ikan salai yang sudah selesai diasapi



Board dan dimension driver L298N

Keterangan :

1. Input Voltage: 3.2V~40Vdc.
2. Driver: L298N Dual H Bridge DC Motor Driver
3. Power Supply: DC 5 V - 35 V
4. Peak current: 2 Amp
5. Operating current range: 0 ~ 36mA
6. Control signal input voltage range :
7. Low:  $-0.3V \leq V_{in} \leq 1.5V$ .
8. High:  $2.3V \leq V_{in} \leq V_{ss}$ .
9. Enable signal input voltage range :
  - Low:  $-0.3 \leq V_{in} \leq 1.5V$  (control signal is invalid).
  - High:  $2.3V \leq V_{in} \leq V_{ss}$  (control signal active).
10. Maximum power consumption: 20W (when the temperature  $T = 75 \text{ }^\circ\text{C}$ ).
11. Storage temperature:  $-25 \text{ }^\circ\text{C} \sim +130 \text{ }^\circ\text{C}$ .
12. On-board +5V regulated Output supply (supply to controller board i.e. Arduino).
13. Size: 3.4cm x 4.3cm x 2.7cm



Wairing driver L298N

## Stepper Motor NEMA 17

This document describes mechanical and electrical specifications for PBC Linear stepper motors; including standard, hollow, and extended shaft variations.

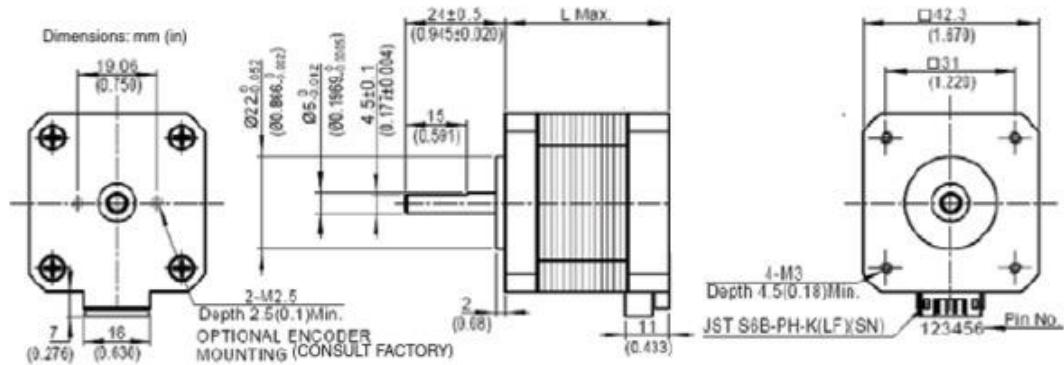


Standard shaft motor shown.

Phases	2
Steps/Revolution	200
Step Accuracy	±5%
Shaft Load	20,000 Hours at 1000 RPM
Axial	25 N (5.6 lbs.) Push 65 N (15 lbs.) Pull
Radial	29 N (6.5 lbs.) At Flat Center
IP Rating	40
Approvals	RoHS
Operating Temp	-20° C to +40° C
Insulation Class	B, 130° C
Insulation Resistance	100 MegOhms

Description	Length	Mounted Rated Current	Mounted Holding Torque		Winding Ohms mH		Detent Torque		Rotor Inertia		Motor Weight	
			Nm Typ.	oz-in Typ.	±10% @ 20°C Typ.	mNm	oz-in	g cm <sup>2</sup>	oz-in <sup>2</sup>	kg	lbs	
(Stack)	L" Max	Amps										
Single	39.8 mm (1.57 in)	2	0.48	68	1.04	2.2	15	2.1	57	0.31	0.28	0.62
Double	48.3 mm (1.90 in)	2	0.63	89	1.3	2.9	25	3.5	82	0.45	0.36	0.79
Triple	62.8 mm (2.47 in)	2	0.83	120	1.49	3.8	30	4.2	123	0.67	0.6	1.3

\*All standard motors have plug connector. Consult factory for other options.



Standard shaft dimensions shown. All other dimensions apply to hollow and extended shaft options.

Dimensions: mm (in)  
4 Lead Connector, PBC Part#6200490  
(Consult factory for optional motor connectors)

