

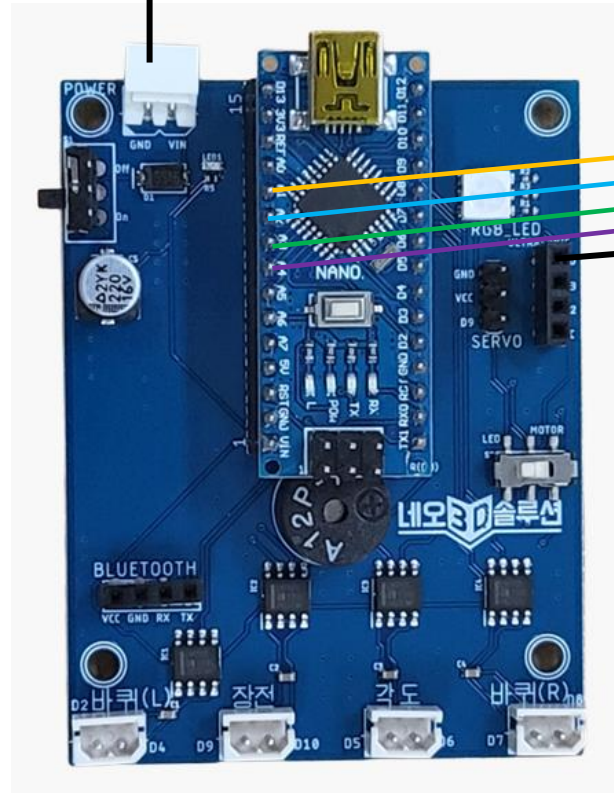
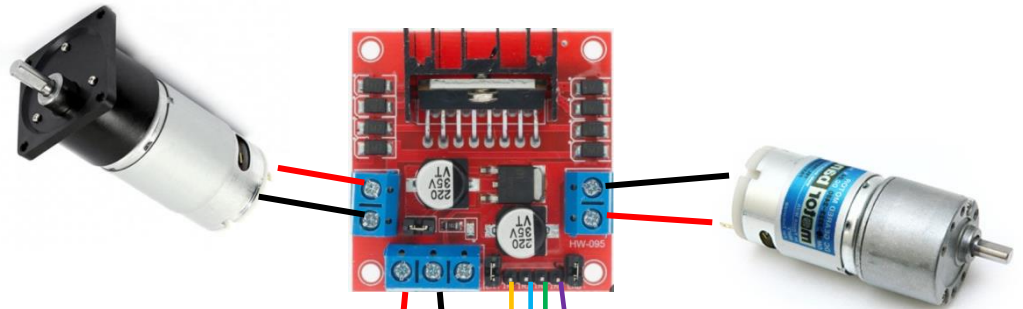
DC 7.5V



Arduino

L298N

A1 ----- IN1  
A2 ----- IN2  
A3 ----- IN3  
A4 ----- IN4



GND

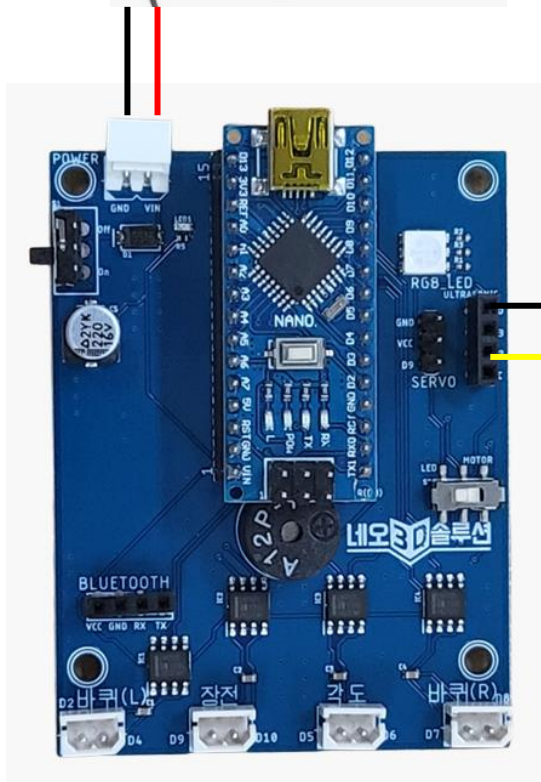
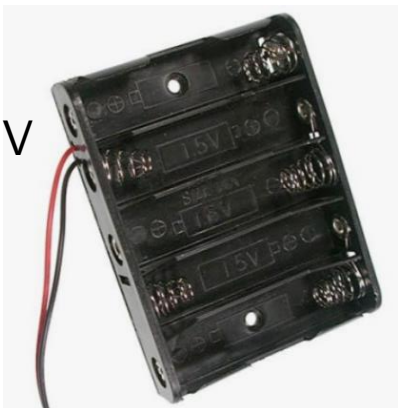


단자대

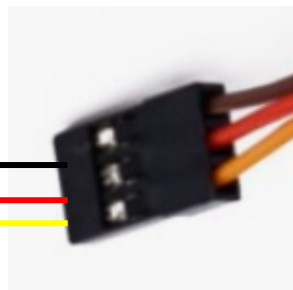


DC 12V

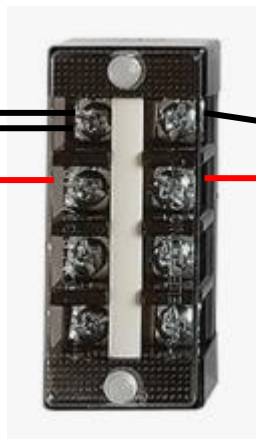
DC 7.5V



GND



D12



DC 6V



## DS3120 디지털 서보모터 180도



### DS3120 20KG Large Torque Digital Servo

Stall Torque (4.8V): 18.2 kg/cm

Stall Torque (6V): 20 kg/cm

Stall Torque (7.2V): 22.3 kg/cm

Speed : 0.18 sec/60°(4.8V) / 0.16 sec/60°(6V)

Operating Voltage: 4.8 ~ 7.2 DC Volts

Dead band: 3μs

Weight: 60 g (2.12 oz)

Motor Type: DC Motor

Gear Type: Metal

Max frequency: 500-2500us

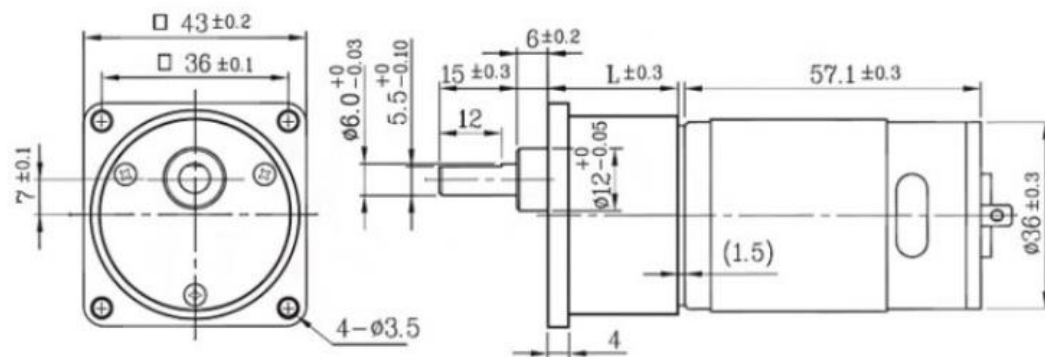
Max Rotation Angle: 180°/270° Optional

Size: 40 x 20 x 40.5 mm ( 1.58 x 0.79 x 1.60 in)



- 감속비: 1/6 ~ 1/3000 (22 kinds)
- 정격토크: 1.0kgf-cm ~ 6.0kgf-cm
- 정격회전수: 821rpm ~ 2.0rpm
- 모터부사양: DC 12v / 6000rpm / 12.8W

### Dimension

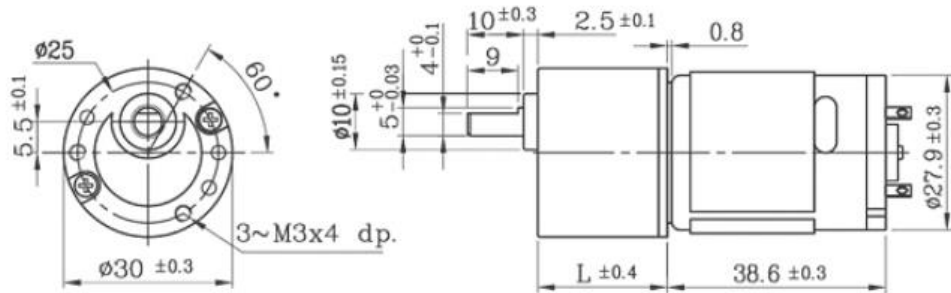


### Geared Motor Spec

감속기 길이 (mm) Gear Head L		19.5		22		24.5						27						29.5						32	
중량(g)		306		313		320						326						332						340	
감속비 Reduction ratio		1/6	1/10	1/18	1/30	1/36	1/50	1/60	1/75	1/90	1/100	1/120	1/150	1/180	1/200	1/250	1/300	1/400	1/500	1/600	1/750	1/1000	1/1500	1/3000	
12V	Rated Torque(Kgf.cm)	1	1	1	2	2	3	3	4	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	Rated Speed(RPM)	821	528	313	185	136	109	95	76	63	55	47	36	31.5	29	22.5	19.5	12.5	11.5	9.8	8	5.9	3.9	2	
	No Load Speed(RPM)	1000	600	333	200	166	120	100	80	66	60	50	40	33	30	24	20	15	12	10	8	6	4	2	

## 제품도면 DIMENSION

## GM30B-2838(12V)



## 감속모터 사양 GEARED MOTOR SPECIFICATION

## GM30B-2838(12V)

감속기 길이 (mm) Gear Head L		23.0									28.0										
중량(g)		162									169										
감속비 Reduction ratio		1/20	1/30	1/36	1/50	1/60	1/75	1/90	1/100	1/120	1/150	1/180	1/200	1/250	1/300	1/400	1/500	1/600	1/810	1/900	1/1000
12v	정격토크(kgf-cm) Rated torque	1.0	1.5	1.5	2.0	2.0	3.0	3.0	3.0	4.0	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	정격 회전수(RPM) Rated speed	255	168	150	107	91	73	62	56	46.3	37.5	32	28.8	24	19.5	15.2	12.1	10.4	7.7	6.9	6.3
	무부하 회전수(RPM) No Load speed	325	216	180	130	108	86	72	65	54	43	36	32	26	21.6	16	13	10.8	8	7.2	6.5