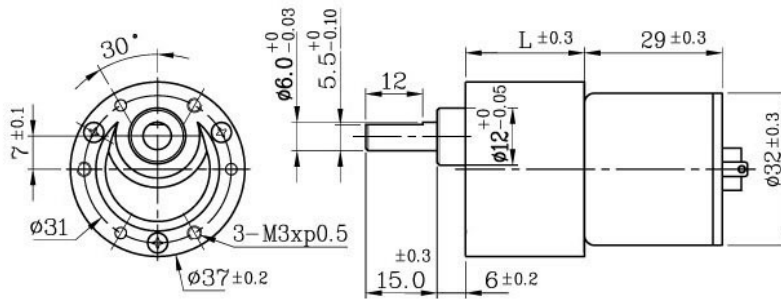


# RB-35GM 11&12 TYPE



- (Operating relative humidity) : 20%~85%
- (Operating temperature) : -10°C ~ +60°C

## (Dimension)

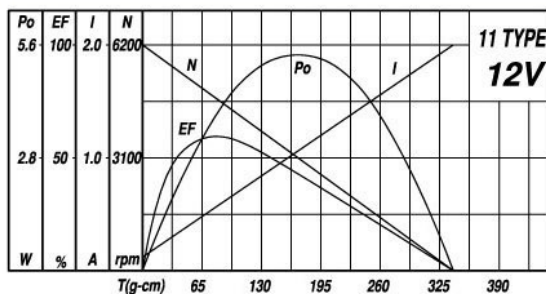


## (Geared Motor Specification)

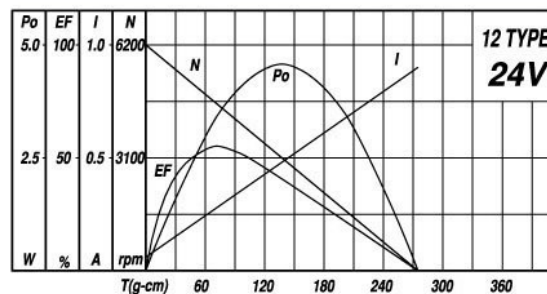
감속기 길이 (mm) Gear Head L		19.5			22			24.5				27				29.5				32	
감속비 Reduction ratio		1/10	1/18	1/30	1/50	1/60	1/75	1/90	1/100	1/120	1/150	1/180	1/200	1/250	1/300	1/500	1/600	1/750	1/1000	1/1500	1/3000
11 Type 12v	정격토크(kgf-cm) Rated torque	0.5	0.8	1.3	2.0	2.4	2.9	3.5	3.9	4.2	5.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	정격 회전수(RPM) Rated speed	490	270	168	100	84	67	57	51	42.5	34	29	26	22	19	11.2	9.5	8.0	6.0	4.1	2.0
12 Type 24v	정격토크(kgf-cm) Rated torque	0.5	0.8	1.4	2.0	2.4	3.0	3.6	4.0	4.4	5.4	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	정격 회전수(RPM) Rated speed	480	250	160	98	83	65	56	50	41.5	33	28.5	26	22	19	11	9.3	7.9	5.9	4.0	2.0

## (Install motor specification)

11Type Motor (DC 12v)		
정격 토크 Rated torque	60	(gf-cm)
정격 회전수 Rated speed	5,100	(RPM)
정격 전류 Rated current	470	(mA)
무부하 회전수 No load speed	6,200	(RPM)
무부하 전류 No load current	120	(mA)
정격 출력 Rated output	3.14	(W)



12Type Motor (DC 24v)		
정격 토크 Rated torque	62	(gf-cm)
정격 회전수 Rated speed	5,000	(RPM)
정격 전류 Rated current	210	(mA)
무부하 회전수 No load speed	6,200	(RPM)
무부하 전류 No load current	60	(mA)
정격 출력 Rated output	3.17	(W)



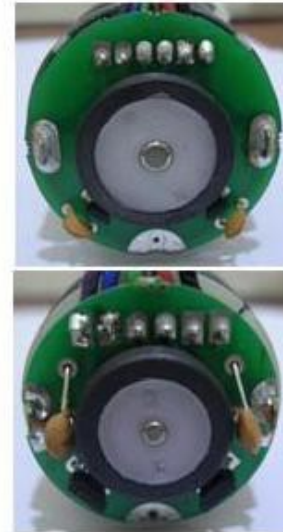
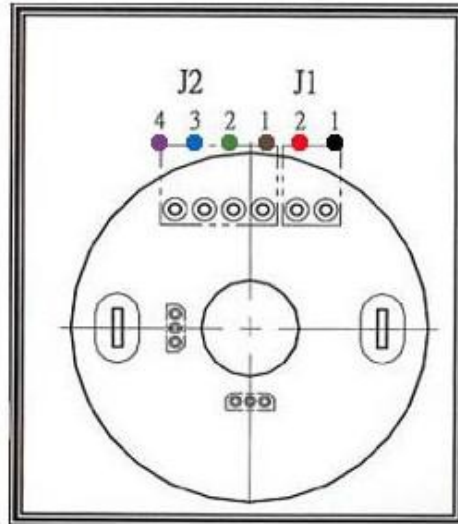
# Connections

J1:

- 1 Motor -
- 2 Motor +

J2:

- 1 Hall Sensor Vcc
- 2 Hall Sensor GND
- 3 Hall Sensor B Vout
- 4 Hall Sensor A Vout

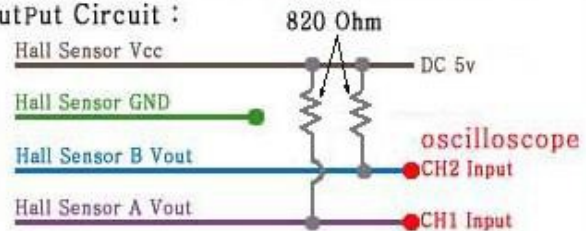


26P 2ch per revolution in criteria of motor axis  
2,600P 2ch per revolution in criteria of 1/100 reduction motor  
output axis. As a magnetic encoder, ATS177 hole sensor element  
sends pulse of relevant resolutions by using the phenomenon that  
the magnetic polarity changes according to the revolution of  
magnet connected to shaft at the rear part of motor. A or B phase  
outputs at intervals of 90(270 degrees)

Connect Pullup resistors as below to get right square wave when  
making circuit

Encode rated power DC 5V - 820 ohm - A phase output -> square wave  
Encode rated power DC 5V - 820 ohm - B phase output -> square wave

Output Circuit :



Characteristics	SYMBOL	TEST CONDITIONS	Min.	Max.	Typ.	Units
Supply Voltage	Vcc	---	3.5	5	20	V
Output Saturation Voltage	Vce(sat)	Vcc=14v ; Ic=20mA	-	300	700	mV
Output Leakage Current	Icex	Vce=14v ; Vcc=14v	-	<0.1	10	uA
Supply Current	Icc	Vcc=20v Output open	-	5	10	mA
Output Rise Time	tr	Vcc=14v ; RL=820Ω ; CL=20pF	-	0.3	1.5	uS
Output Fall Time	tf	Vcc=14v ; RL=820Ω ; CL=20pF	-	0.3	1.5	uS