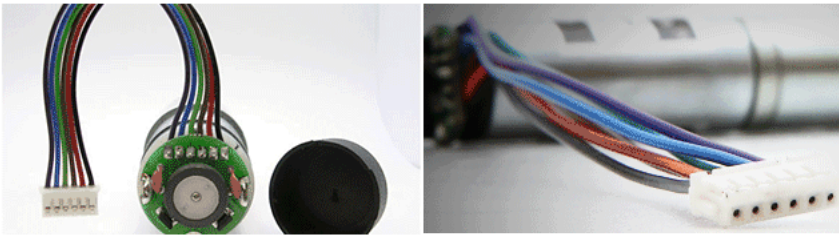
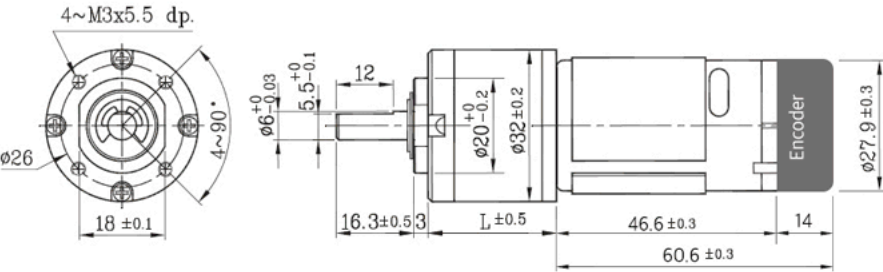


IG-32GM W/EC
엔코더 결합형 유성감속모터

Planetary Gearhead Type
DC GEARED ENCODER MOTOR
IG32GM W/EC 03TYPE



제품도면 DIMENSION

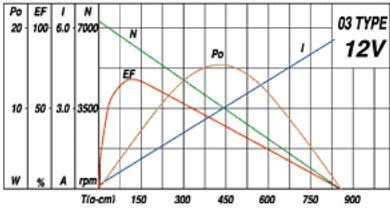


감속모터사양 GEARED MOTOR SPECIFICATION

감속기길이(mm) Gear Head L		20.6		27.0				33.4				39.8				
중량(g)		211		231				256				282				
감속비 Reduction ratio		1/4	1/5	1/14	1/19	1/27	1/35	1/51	1/71	1/100	1/139	1/189	1/264	1/516	1/721	1/939
03 TYPE 12V	정격토크(kgf-cm) Rated torque	0.35	0.45	1.1	1.5	2.1	2.7	3.4	4.7	6.6	9.1	10	12	12	12	12
	정격 회전수(RPM) Rated speed	1487	1140	430	310	221	170	117	83	60	44	32	24	12.9	9.5	6.3
	무부하 회전수(RPM)	1500	1150	450	330	230	180	120	90	70	50	35	25	13	10	6.5

장착된 모터 사양 INSTALL MOTOR SPECIFICATION

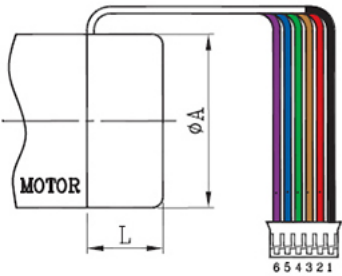
03Type Motor (DC 12v)		
정격 토크 Rated torque	110	(gf-cm)
정격 회전수 Rated speed	5,950	(RPM)
정격 전류 Rated current	900	(mA)
무부하 회전수 No load speed	7,300	(RPM)
무부하 전류 No load current	150	(mA)
정격 출력 Rated output	7.0	(W)



Magnet Encoder 자기식 엔코더

- 사용 습도(Operating relative humidity): 20%~85%
- 사용 온도(Operating temperature): -10℃ ~ +60℃

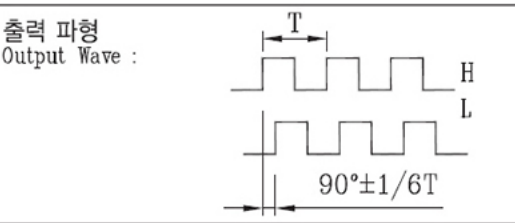
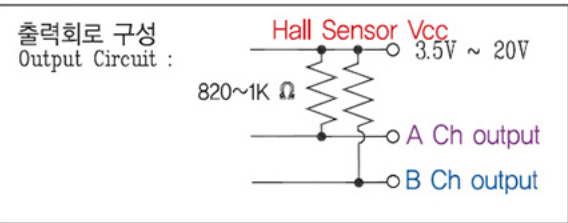
Two channel Hall Effect Encoder



- 엔코더 컨넥터 핀별 내용 :
Two Channel Encoder Connections :
1. Black : -MOTOR
 2. Red : +MOTOR
 3. Brown : HALL SENSOR Vcc
 4. Green : HALL SENSOR GND
 5. Blue : HALL SENSOR B Vout
 6. Purple : HALL SENSOR A Vout

★ WITHOUT CAP

Motor φA	CAP L	COUNTS POLES OF PER TURN(PPR)		Wire Type Length	Connector Type	model
		current	limit			
φ12	★ 6.5	2, 6 (1, 3)	6 (3)	UL1061 AWG26 100mm	JST ZHR-6 P=1.5-6P	IG12, IG16, RA12W, RA20
φ15.4	★ 6.5	2, 6 (1, 3)	6 (3)			
φ20.3	★ 8.5	2, 6 (1, 3)	6 (3)			
φ30.0	12.6	26 (13)	26 (13)	UL1007 AWG24 100mm	JST PHR-6 P=2.0-6P	IG22, IG22C, IG28, IG30, IG32, IG32P, IG32R, IG36P, IG43, RA35, RB30, RB35, RB40
φ32	14.3	26 (13)	26 (13)			
φ36	13.5	26 (13)	26 (13)			
φ42.5	15.5	38 (19)	38 (19)	UL1007 AWG24 UL1007 AWG18 100mm	JST PHR-4 P=2.0-4P Molex 09-50-3021 P=3.96-2P	IG42, IG52
φ52	18.0	38 (19)	38 (19)			
φ54						



Characteristics	Symbol	Test conditions	Min	Ref	Max	Units
Supply Voltage	VCC	-	3.5	-	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	μA
Supply Current	Ice	Vcc=20v Output open	-	5	10	mA
Output Rise Time	tr	Vcc=14v ; RL=820 Ohm	-	0.3	1.5	μs
Output fa Time	tf	Vcc=14v ; RL=820 Ohm	-	0.3	1.5	μs