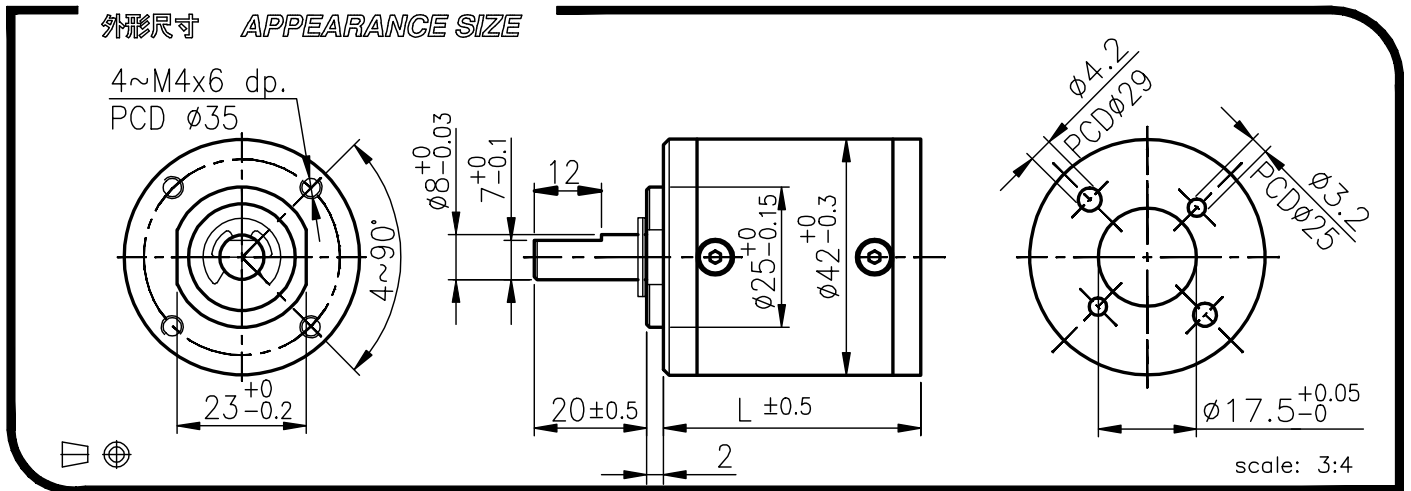


IG-42H



外殼材質 Housing material	金屬 metal	背隙 (無負荷時) Backlash, at no-load	≤ 3°
輸出軸承型式 Bearing at output		含油軸承 Sleeve bearings	滾珠軸承 Ball bearings
徑向負荷 Radial load (10mm from flange)		≤ 5 kgf	≤ 8 kgf
軸向負荷 Shaft axial load		≤ 3 kgf	≤ 3 kgf
主軸最大承受壓入力 Shaft press fit force, max.		≤ 15 kgf	≤ 15 kgf
徑向間隙 Radial play of shaft		≤ 0.08 mm	≤ 0.05 mm
軸向間隙 Thrust play of shaft		≤ 0.3 mm	≤ 0.3 mm

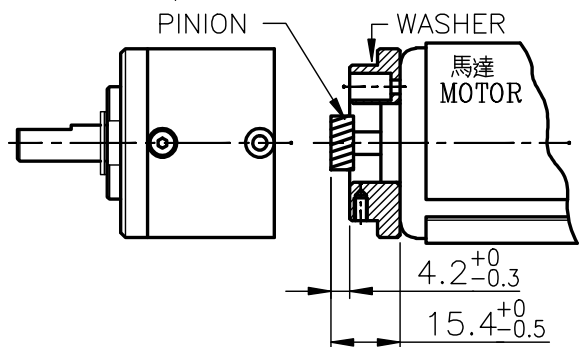
外形尺寸 APPEARANCE SIZE



馬達齒輪型式 / PINION SPECIFICATIONS

模數 Module	0.6			
齒數 No. of teeth	9	12	15	18
壓力角 Pressure angle	20°			
螺旋角 Helix angle	18°(左, left)			
孔徑 Hole diameter	Ø3.15	Ø3.98	Ø4.98	
減速比 Reduction ratio	1/25	1/20, 1/100, 1/120, 1/500 1/600, 1/720, 1/1062	1/17, 1/84 1/294	1/15, 1/51 1/64, 1/180 1/222

馬達裝卸方法 / MOTOR INSTALLATION



★ 使用相對溼度: 20%~85%RH ★ 使用溫度範圍: -10°C~+60°C
Operating relative humidity Operating temperature range

標準減速比型式 / GEARBOXES SPECIFICATIONS

減速比 Reduction ratio	精確減速比 Exact reduction ratio	定格容許扭力 Rated tolerance torque	瞬間容許扭力 Max momentary tolerance torque	效率 Efficiency	L	重量(含油軸承) Weight (g) Sleeve bearings	重量(滾珠軸承) Weight (g) Ball bearings
1/15, 1/17	14 2/3, 16 4/5	8.0 kgf-cm Max.	24.0 kgf-cm	70%	39.2	193	191
1/20, 1/25	20, 25 1/3	8.0 kgf-cm Max.	24.0 kgf-cm	70%	39.2	193	191
1/51, 1/64, 1/84	51 1/3, 63 5/9, 84	18.0 kgf-cm Max.	54.0 kgf-cm	60%	45.9	233	231
1/100, 1/120	100, 120	20.0 kgf-cm Max.	60.0 kgf-cm	60%	45.9	233	231
1/180, 1/222	179 2/3, 222 4/9	25.0 kgf-cm Max.	75.0 kgf-cm	50%	52.6	283	281
1/294, 1/500	294, 500	30.0 kgf-cm Max.	90.0 kgf-cm	50%	52.6	283	281
1/600, 1/720	600, 720	30.0 kgf-cm Max.	90.0 kgf-cm	50%	52.6	283	281
1/1062	1061 2/3	30.0 kgf-cm Max.	90.0 kgf-cm	40%	59.6	328	326
1/1470, 1/2500	1470, 2500	30.0 kgf-cm Max.	90.0 kgf-cm	40%	59.6	328	326
1/3000, 1/3600	3000, 3600	30.0 kgf-cm Max.	90.0 kgf-cm	40%	59.6	328	326

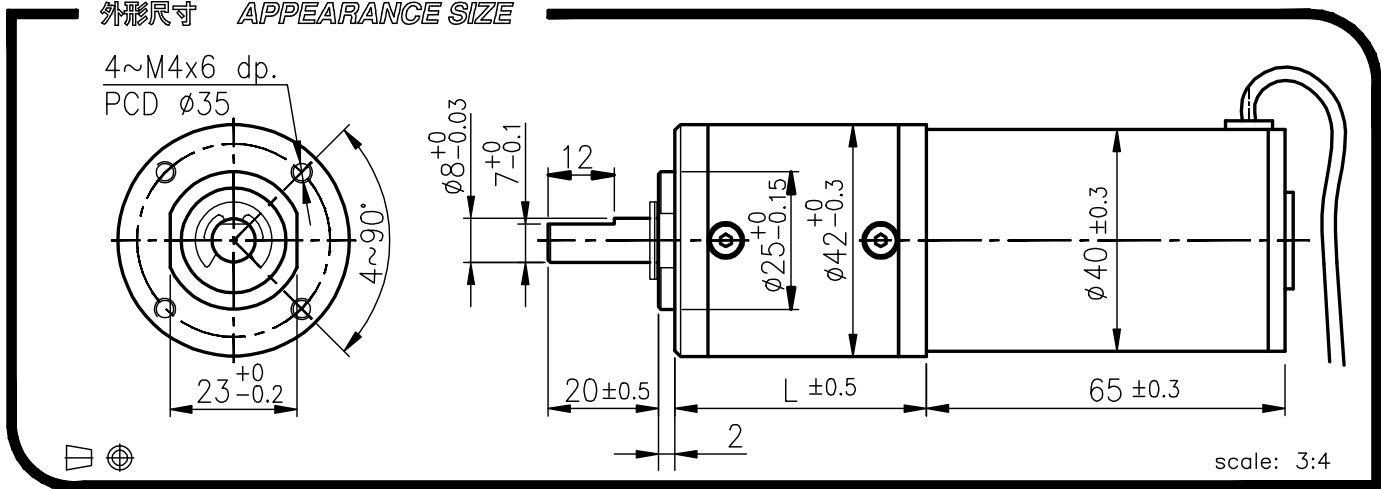
IG-42HGM

03&04 TYPE



REDUCTION RATIO	L	REDUCTION RATIO	L
1/15~1/25	39.2	1/180~1/720	52.6
1/51~1/120	45.9	1/1062~1/3600	59.6

外形尺寸 APPEARANCE SIZE



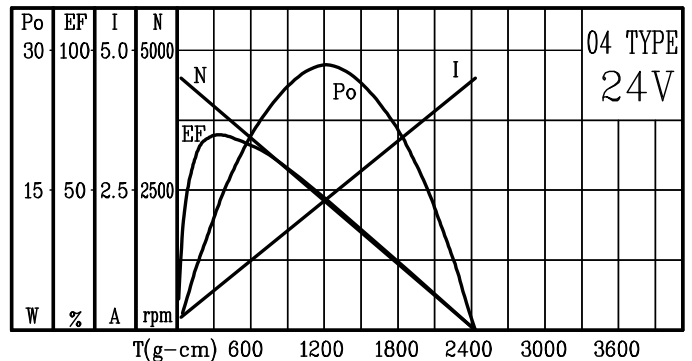
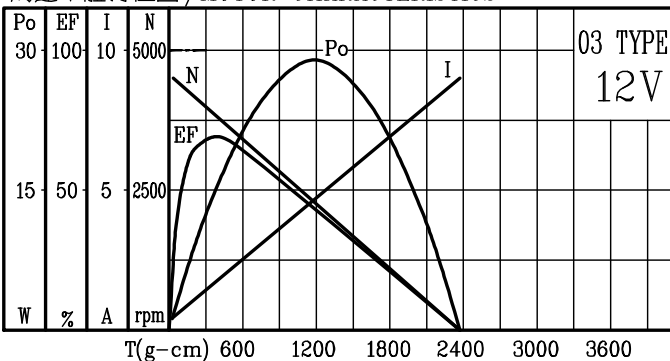
GEARED MOTOR TORQUE/SPEED

	減速比 Reduction ratio	1/15	1/17	1/20	1/25	1/51	1/64	1/84	1/100	1/120	1/180	1/222	1/294	1/500	1/600	1/720	1/1062	1/1470	1/2500	1/3000	1/3600	
		12V	4.4	5.0	6.0	7.6	13	16	18	20	20	25	25	30	30	30	30	30	30	30	30	30
	定格扭力(Kg-cm) Rated torque	250	220	187	148	73	59	45	38	32	21.3	17.3	13.2	8	6.7	5.6	3.8	2.7	1.6	1.4	1.2	
	定格回轉數(rpm) Rated speed	3.2	4.1	4.9	6.2	10	13	17	20	20	25	25	30	30	30	30	30	30	30	30	30	
24V	定格扭力(Kg-cm) Rated torque	255	223	190	150	74	59	45	38	31.8	21.2	17.2	13.2	8	6.7	5.6	3.8	2.7	1.6	1.4	1.2	
	定格回轉數(rpm) Rated speed																					

馬達單體型式 / MOTOR DATA

定格電壓 Rated volt (V)	定格扭力 Rated torque (g-cm)	定格回轉數 Rated speed (rpm)	定格電流 Rated current (mA)	無負荷回轉數 No load speed (rpm)	無負荷電流 No load current (mA)	定格出力 Rated output (W)	重量 Weight (g)
12	430	3750	≤ 2000	4500	≤ 500	16.56	310
24	350	3800	≤ 820	4500	≤ 220	13.65	310

馬達單體特性圖 / MOTOR CHARACTERISTICS



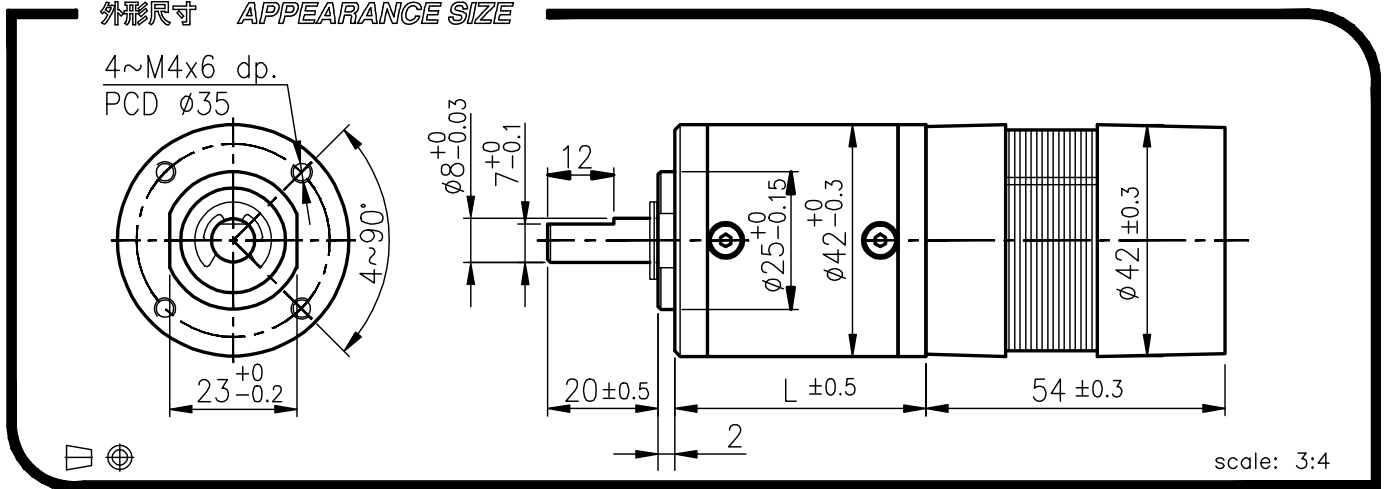
IG-42HGM

41&42 TYPE



REDUCTION RATIO	L	REDUCTION RATIO	L
1/15~1/25	39.2	1/180~1/720	52.6
1/51~1/120	45.9	1/1062~1/3600	59.6

外形尺寸 APPEARANCE SIZE



GEARED MOTOR TORQUE/SPEED

	減速比 Reduction ratio	1/15	1/17	1/20	1/25	1/51	1/64	1/84	1/100	1/120	1/180	1/222	1/294	1/500	1/600	1/720	1/1062	1/1470	1/2500	1/3000	1/3600	
		12V	2.0	2.3	2.8	3.5	6.0	7.5	10	12	14	18	22	29	30	30	30	30	30	30	30	30
	定格扭力(Kg-cm) Rated torque																					
	定格回轉數(rpm) Rated speed	200	175	150	115	58	47	35	30	25	16	13	10	6.2	5.2	4.5	3.0	2.3	1.3	1.15	0.95	
24V	定格扭力(Kg-cm) Rated torque	3.6	4.3	5.0	6.5	11	14	18	20	20	25	25	30	30	30	30	30	30	30	30	30	
	定格回轉數(rpm) Rated speed	300	260	220	170	85	69	52	44	37	25	20	15	8.9	7.5	6.3	4.3	3.1	1.8	1.6	1.3	

馬達單體型式 / MOTOR DATA

定格電壓 Rated volt (V)	定格扭力 Rated torque (g-cm)	定格回轉數 Rated speed (rpm)	定格電流 Rated current (mA)	無負荷回轉數 No load speed (rpm)	無負荷電流 No load current (mA)	定格出力 Rated output (W)	重量 Weight (g)
12	200	3000	≤ 800	3700	≤ 160	6.16	260
24	370	4400	≤ 1000	5000	≤ 250	16.7	260

馬達單體特性圖 / MOTOR CHARACTERISTICS

