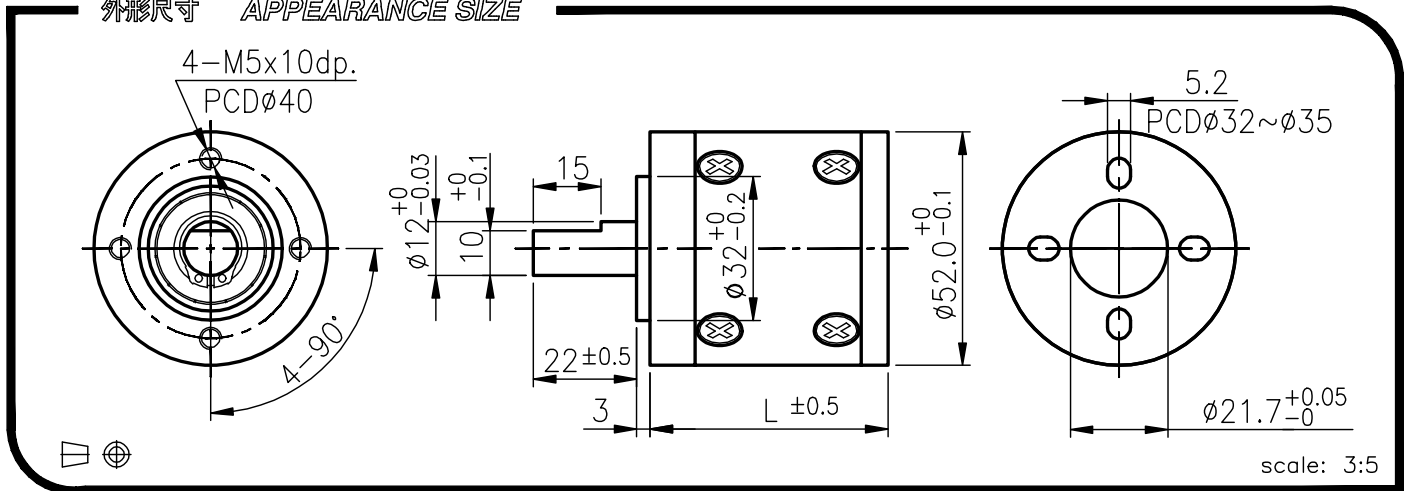


# IG-52



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		滾珠軸承 Ball bearings	
徑向負荷 Radial load (10mm from flange)		≤ 20 kgf	
軸向負荷 Shaft axial load		≤ 10 kgf	
主軸最大承受壓力 Shaft press fit force, max.		≤ 30 kgf	
徑向間隙 Radial play of shaft		≤ 0.04 mm	
軸向間隙 Thrust play of shaft		≤ 0.3 mm	

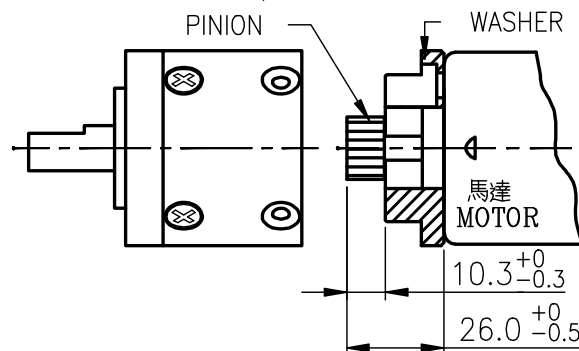
外形尺寸 APPEARANCE SIZE



馬達齒輪型式 / PINION SPECIFICATIONS

模數 Module	1.0		
齒數 No. of teeth	8	12	16
壓力角 Pressure angle	20°		
孔徑 Hole diameter	$\phi 3.98$ , $\phi 5.98$ , $\phi 6.34$		
減速比 Reduction ratio	1/21, 1/26 1/126, 1/156 1/756, 1/936	1/4, 1/15, 1/19 1/53, 1/66, 1/81 1/113, 1/230, 1/285 1/353, 1/488, 1/546 1/676	1/3 1/12 1/43 1/150

馬達裝卸方法 / MOTOR INSTALLATION



標準減速比型式 / GEARBOXES SPECIFICATIONS

★ 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

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 (滾珠軸承) Weight (g) Ball bearings
1/3, 1/4	3 1/2, 4 1/3	10 kgf-cm Max.	30 kgf-cm	80%	53.0	475
1/12, 1/15	12 1/4, 15 1/6	30 kgf-cm Max.	90 kgf-cm	70%	68.5	660
1/19, 1/21, 1/26	18 7/9, 21, 26	50 kgf-cm Max.	150 kgf-cm	70%	68.5	660
1/43, 1/53, 1/66	42 7/8, 53 1/12, 65 13/18	100 kgf-cm Max.	300 kgf-cm	60%	84.0	850
1/81, 1/100	81 10/27, 100 2/7	100 kgf-cm Max.	300 kgf-cm	60%	84.0	850
1/113, 1/126	112 2/3, 126	100 kgf-cm Max.	300 kgf-cm	60%	84.0	850
1/150	150 1/16	100 kgf-cm Max.	300 kgf-cm	50%	99.5	1020
1/230, 1/285	230 1/36, 284 43/54	100 kgf-cm Max.	300 kgf-cm	50%	99.5	1020
1/353, 1/488	352 49/81, 488 2/9	100 kgf-cm Max.	300 kgf-cm	50%	99.5	1020
1/546, 1/676	546, 676	100 kgf-cm Max.	300 kgf-cm	50%	99.5	1020
1/756, 1/936	756, 936	100 kgf-cm Max.	300 kgf-cm	50%	99.5	1020

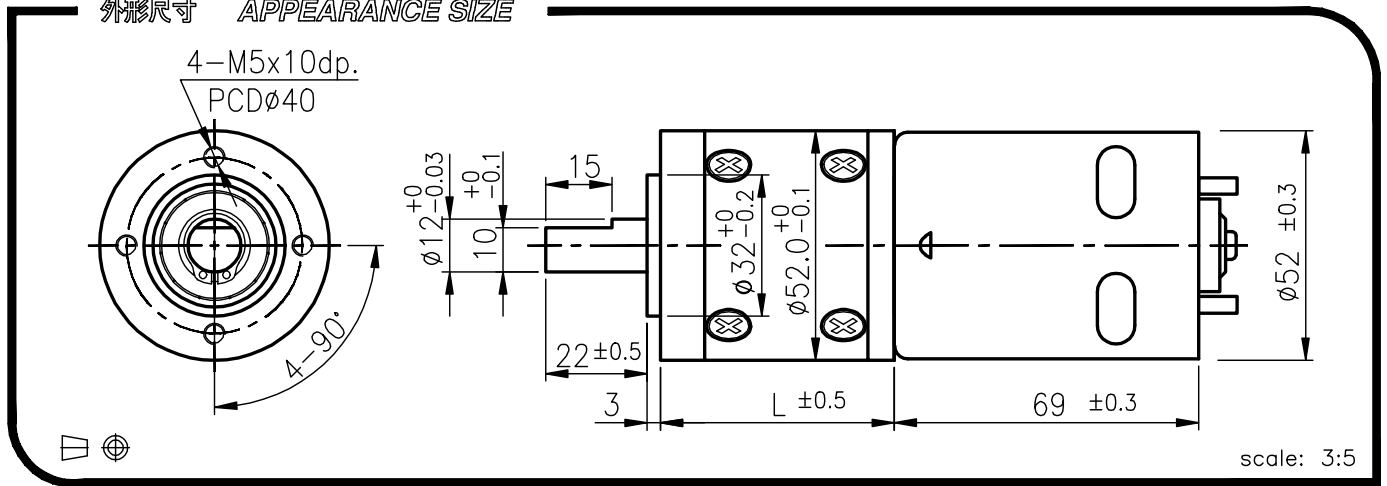
# IG-52GM

## 01&02 TYPE



REDUCTION RATIO	L	REDUCTION RATIO	L
1/3~1/4	53.0	1/43~1/113	84.0
1/12~1/19	68.5	1/150~1/676	99.5

外形尺寸 APPEARANCE SIZE



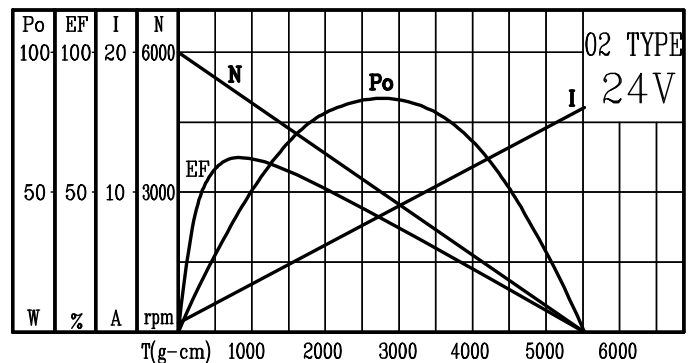
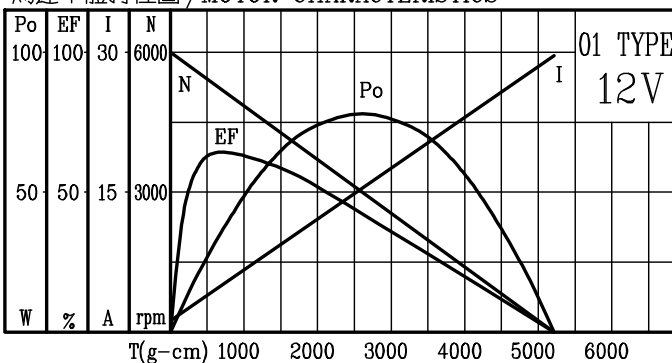
GEARED MOTOR TORQUE/SPEED

	減速比 Reduction ratio	1/3	1/4	1/12	1/15	1/19	1/43	1/53	1/66	1/81	1/100	1/113	1/150	1/230	1/285	1/353	1/488	1/546	1/676	
		12V	1.3	1.65	4.1	5.0	6.3	12	15	19	23	28	32	36	55	68	84	100	100	
	定額扭力(Kg-cm) Rated torque	1.3	1.65	4.1	5.0	6.3	12	15	19	23	28	32	36	55	68	84	100	100	100	
	定額回轉數(rpm) Rated speed	1560	1260	450	369	305	130	105	85	68.5	55.5	49.5	37	24	19.5	15.5	11.5	10.4	8.3	
24V	定額扭力(Kg-cm) Rated torque	1.8	2.2	5.5	6.8	8.5	16	20	25	31	39	44	48	74	92	100	100	100	100	
	定額回轉數(rpm) Rated speed	1520	1230	444	359	290	127	102	83	66.5	54	48	36	23.5	19	15.5	11.6	10.5	8.4	

馬達單體型式 / MOTOR DATA

定額電壓 Rated volt (V)	定額扭力 Rated torque (g-cm)	定額回轉數 Rated speed (rpm)	定額電流 Rated current (mA)	無負荷回轉數 No load speed (rpm)	無負荷電流 No load current (mA)	定額出力 Rated output (W)	重量 Weight (g)
12	480	5600	≤ 5600	6000	≤ 1750	58.6	480
24	650	5450	≤ 2750	6000	≤ 750	48.3	480

馬達單體特性圖 / MOTOR CHARACTERISTICS



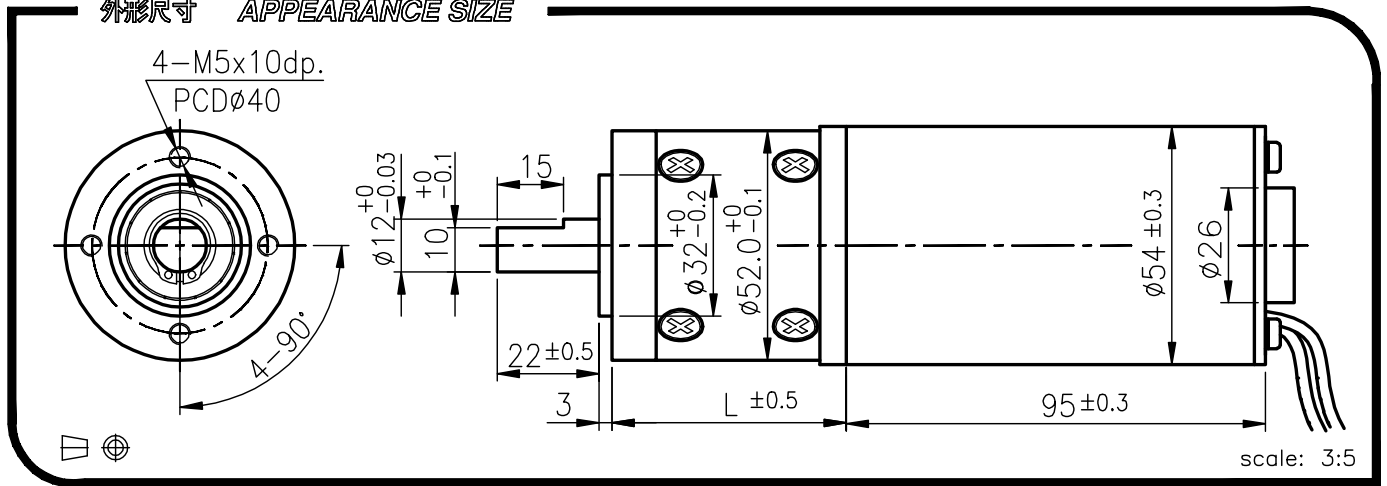
# IG-52GM

## 03&04 TYPE



REDUCTION RATIO	L	REDUCTION RATIO	L
1/3~1/4	53.0	1/43~1/113	84.0
1/12~1/26	68.5	1/150~1/936	99.5

外形尺寸 APPEARANCE SIZE



GEARED MOTOR TORQUE/SPEED

	減速比 Reduction ratio	1/3	1/4	1/12	1/15	1/19	1/26	1/43	1/53	1/66	1/81	1/100	1/113	1/150	1/230	1/285	1/353	1/488	1/546	1/676	1/936
		12V	2.5	3.1	7.7	9.5	11.8	16	23	28	35	44	54	60	67	100	100	100	100	100	100
	定額回轉數 (rpm) Rated speed	1030	835	295	238	192	139	84	68	55	44	36	32	24	15.5	12.8	10.4	7.6	6.7	5.6	4.0
24V	3.6	4.5	11	13.5	17	23	33	41	51	62	78	88	97	100	100	100	100	100	100	100	100
	定額回轉數 (rpm) Rated speed	1000	815	285	230	185	136	82	67	54	44	35	31	23.5	15.6	12.9	10.5	7.7	6.8	5.7	4.1

馬達單體型式 / MOTOR DATA

定額電壓 Rated volt (V)	定額扭力 Rated torque (g-cm)	定額回轉數 Rated speed (rpm)	定額電流 Rated current (mA)	無負荷回轉數 No load speed (rpm)	無負荷電流 No load current (mA)	定額出力 Rated output (W)	重量 Weight (g)
12	900	3620	≤ 4100	4000	≤ 1200	33.5	920
24	1300	3550	≤ 2850	4000	≤ 700	48.6	920

馬達單體特性圖 / MOTOR CHARACTERISTICS

