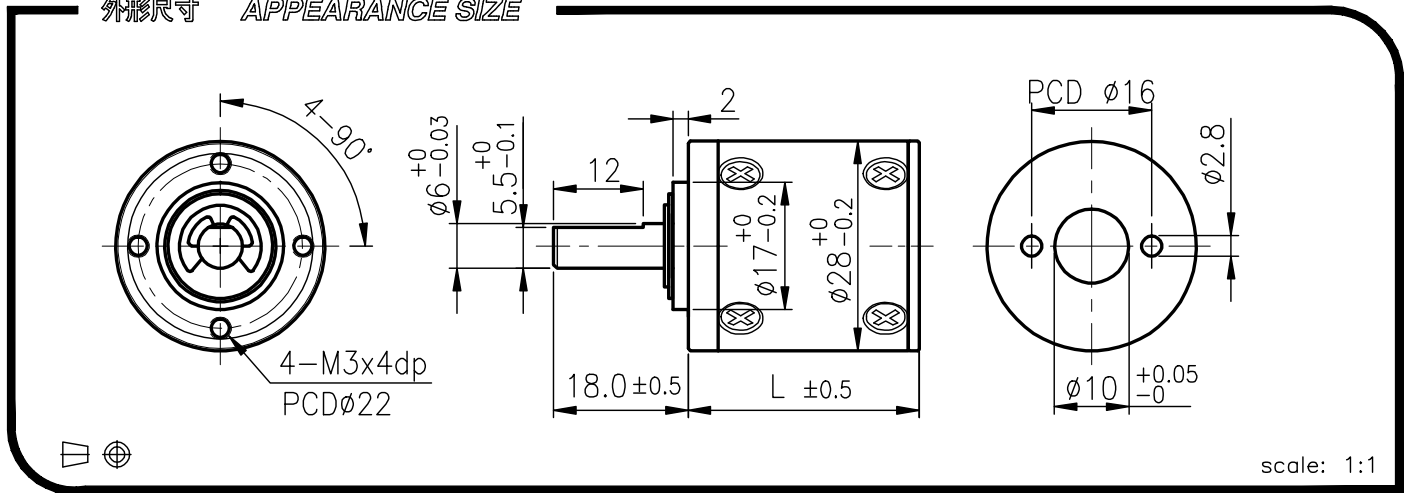


IG-28



外殼材質 Housing material	金屬 metal	背隙 (無負荷時) Backlash, at no-load	≤ 2.5°
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)		≤ 3 kgf	≤ 3.5 kgf
軸向負荷 Shaft axial load		≤ 2.5 kgf	≤ 2.5 kgf
主軸最大承受壓力 Shaft press fit force, max.		≤ 10 kgf	≤ 10 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

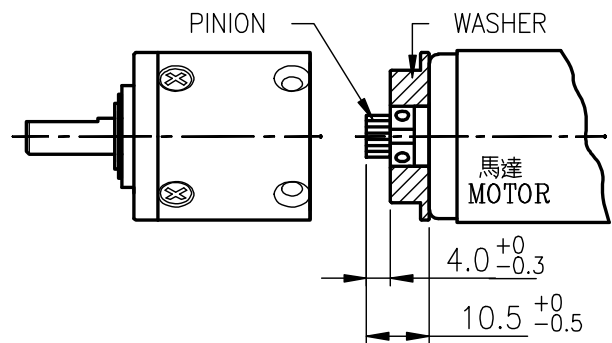
外形尺寸 APPEARANCE SIZE



馬達齒輪型式 / PINION SPECIFICATIONS

模數 Module	0.5			
齒數 No. of teeth	11	17	8	
壓力角 Pressure angle	20°			
孔徑 Hole diameter	φ2.28			
減速比 Reduction ratio	1/5, 1/71, 1/264,	1/19, 1/100, 1/516,	1/27, 1/139, 1/721	1/4, 1/14, 1/51, 1/189
				1/35, 1/939

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(含油軸承) Weight (g) Sleeve bearings	重量(滾珠軸承) Weight (g) Ball bearings
1/4,1/5	3 12/17 ,5 2/11	2.0 kgf-cm Max.	6.0 kgf-cm	80%	24.5	71	70
1/14,1/19	13 212/289 ,19 38/187	3.0 kgf-cm Max.	9.0 kgf-cm	70%	30.9	81	80
1/27,1/35	26 103/121 ,34 43/44	4.0 kgf-cm Max.	12.0 kgf-cm	70%	30.9	81	80
1/51,1/71	50 4397/4913 ,71 524/3179	6.0 kgf-cm Max.	18.0 kgf-cm	60%	37.3	94	93
1/100	99 1044/2057	8.0 kgf-cm Max.	24.0 kgf-cm	60%	37.3	94	93
1/139	139 184/1331	8.0 kgf-cm Max.	24.0 kgf-cm	60%	37.3	94	93
1/189	188 51013/83521	10.0 kgf-cm Max.	30.0 kgf-cm	50%	43.7	108	107
1/264	263 39370/54043	10.0 kgf-cm Max.	30.0 kgf-cm	50%	43.7	108	107
1/516	515 14254/22627	10.0 kgf-cm Max.	30.0 kgf-cm	50%	43.7	108	107
1/721	720 14481/14641	10.0 kgf-cm Max.	30.0 kgf-cm	50%	43.7	108	107
1/939	939 975/5324	10.0 kgf-cm Max.	30.0 kgf-cm	50%	43.7	108	107

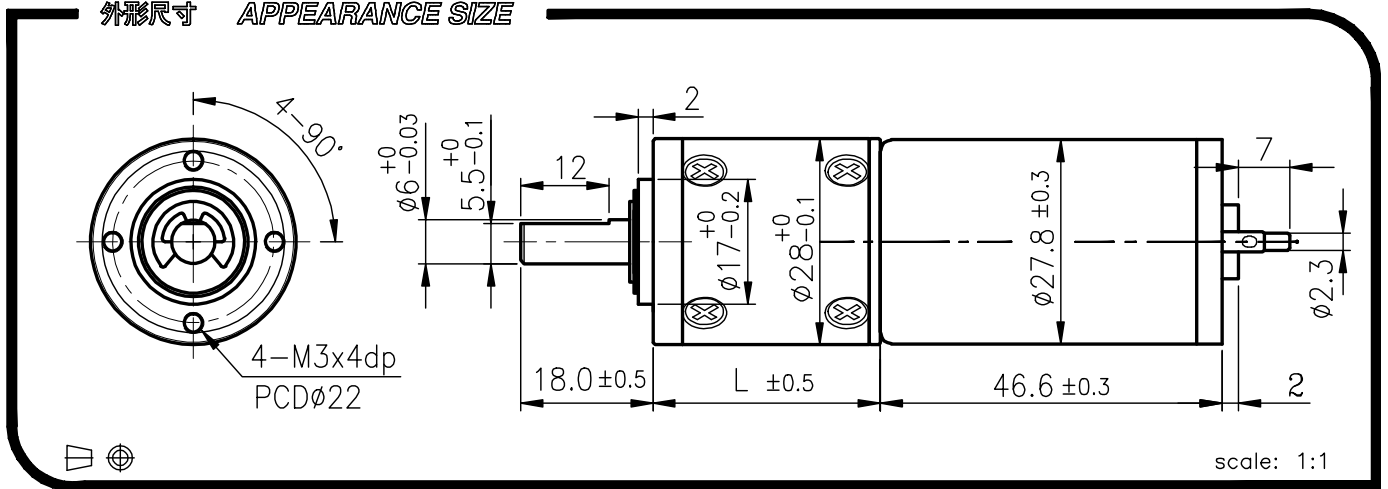
IG-28GM

03&04 TYPE



REDUCTION RATIO	L	REDUCTION RATIO	L
1/4~1/5	24.5	1/51~1/139	37.3
1/14~1/35	30.9	1/189~1/939	43.7

外形尺寸 APPEARANCE SIZE



GEARED MOTOR TORQUE/SPEED

減速比 Reduction ratio	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				
12V 定格扭力(Kg-cm) Rated torque	0.32	0.75	1.0	1.4	1.9	2.4	3.3	4.7	6.6	7.4	10	10	10	10				
12V 定格回轉數(rpm) Rated speed	1000	375	270	193	148	102	73	52	37.3	27.5	19.7	10.5	7.5	5.7				
24V 定格扭力(Kg-cm) Rated torque	0.38	0.9	1.2	1.7	2.3	2.8	4.0	5.6	7.8	8.8	10	10	10	10				
24V 定格回轉數(rpm) Rated speed	990	370	265	191	147	101	72	51.5	36.9	27.2	19.3	10.4	7.4	5.7				

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	79	5200	≤ 500	6000	≤ 130	4.22	93
24	94	5140	≤ 300	6000	≤ 80	4.96	91

馬達單體特性圖 / MOTOR CHARACTERISTICS

