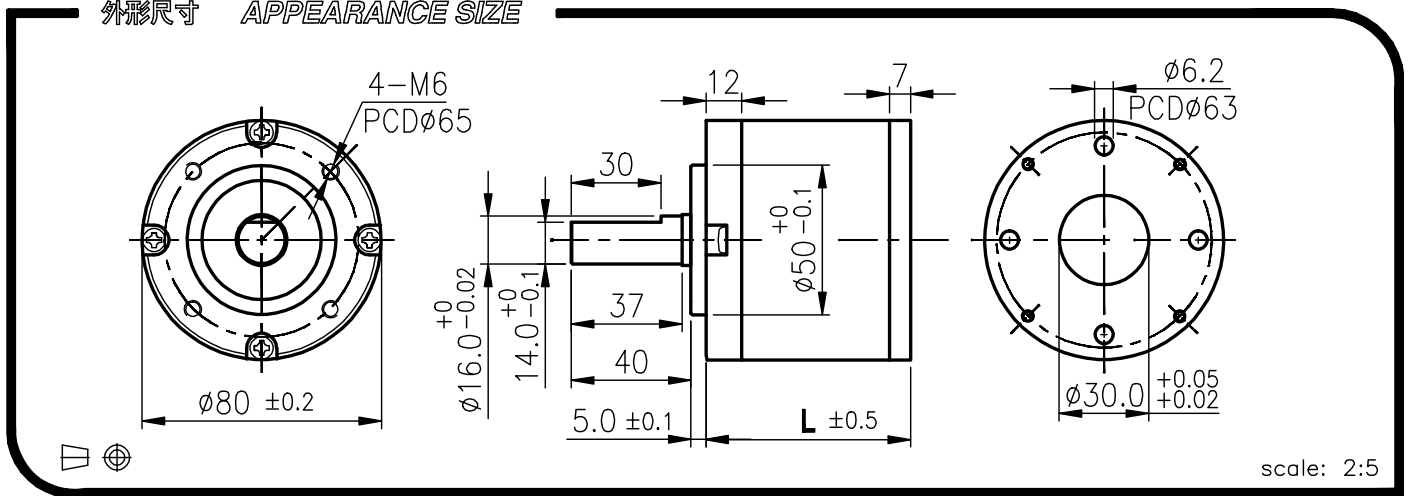


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外殼材質 Housing material	金屬 metal	背隙 (無負荷時) Backlash, at no-load	≤ 3°
輸出軸承型式 Bearing at output		滾珠軸承 Ball bearings	
徑向負荷 Radial load (10mm from flange)		≤ 30 kgf	
軸向負荷 Shaft axial load		≤ 10 kgf	
主軸最大承受壓入力 Shaft press fit force, max.		≤ 75 kgf	
徑向間隙 Radial play of shaft		≤ 0.08 mm	
軸向間隙 Thrust play of shaft		≤ 0.4 mm	

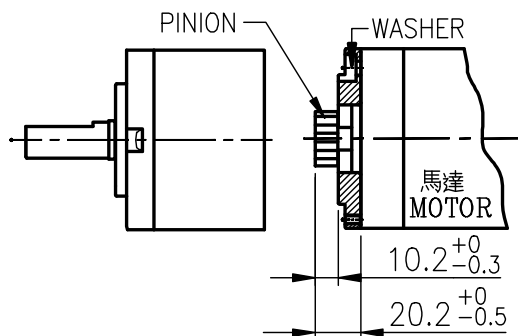
外形尺寸 APPEARANCE SIZE



馬達齒輪型式 / PINION SPECIFICATIONS

模數 Module	1.0	
齒數 No. of teeth	13	21
壓力角 Pressure angle	20°	
孔徑 Hole diameter	$\phi 6 \times 4.5$	$\phi 10 \times 8$
減速比 Reduction ratio	1/19, 1/21, 1/71 1/80, 1/103, 1/117 1/306, 1/393, 1/445 1/571, 1/647,	1/13, 1/15 1/49, 1/55 1/186, 1/211

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 Weight (g)
1/4	3 17/21	15 kgf-cm Max.	45 kgf-cm	80%	52.3	1200
1/13, 1/15	12 4/5, 14 226/441	70 kgf-cm Max.	210 kgf-cm	70%	68.8	1650
1/19, 1/21	18 198/325, 21 9/91	70 kgf-cm Max.	210 kgf-cm	70%	68.8	1650
1/49, 1/55	48 16/21, 55 2645/9261	125 kgf-cm Max.	375 kgf-cm	60%	85.3	2100
1/71, 1/80	70 58/65, 80 240/637	125 kgf-cm Max.	375 kgf-cm	60%	85.3	2100
1/103, 1/117	103 281/4225, 116 1012/1183	125 kgf-cm Max.	375 kgf-cm	60%	85.3	2100
1/186, 1/210	186 335/441, 210 118990/194481	125 kgf-cm Max.	375 kgf-cm	50%	101.8	2550
1/306, 1/393	306 2638/13377, 392 536/845	125 kgf-cm Max.	375 kgf-cm	50%	101.8	2550
1/445, 1/571	445 1355/8281, 570 45582/54925	125 kgf-cm Max.	375 kgf-cm	50%	101.8	2550
1/647	647 3067/15379	125 kgf-cm Max.	375 kgf-cm	50%	101.8	2550

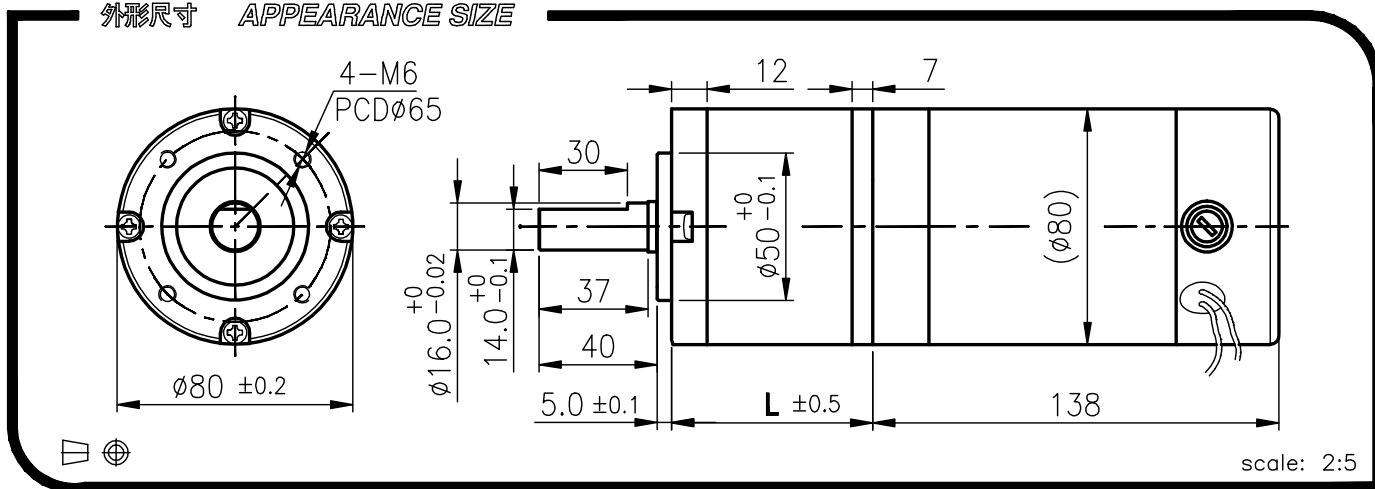
IG-80GM

01&02 TYPE



REDUCTION RATIO	L	REDUCTION RATIO	L
1/4	52.3	1/186~1/647	101.8
1/13~1/21	68.8		
1/49~1/117	85.3		

外形尺寸 APPEARANCE SIZE



GEARED MOTOR TORQUE/SPEED

	減速比 Reduction ratio	1/4	1/13	1/15	1/19	1/21	1/49	1/55	1/71	1/80	1/103	1/117	1/186	1/210	1/306	1/393	1/445	1/571	1/647		
		12V	7.6	22.4	25	32	36	73	82	105	120	125	125	125	125	125	125	125	125	125	125
	定額回轉數 (rpm) Rated speed	445	130	115	90	80	34	30	23.5	21	16.7	14.7	9.3	8.3	5.8	4.5	4.0	3.2	2.8		
24V	定額扭力 (Kg-cm) Rated torque	9.7	28.6	32	41	47	93	99	125	125	125	125	125	125	125	125	125	125	125		
	定額回轉數 (rpm) Rated speed	470	140	124	95	85	36	32	25.5	23	17.8	15.6	9.9	8.8	6.0	4.7	4.2	3.3	2.9		

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	2500	1700	≤ 5300	2000	≤ 1100	43.6	1650
24	3200	1800	≤ 3400	2000	≤ 600	59.0	1650

馬達單體特性圖 / MOTOR CHARACTERISTICS

