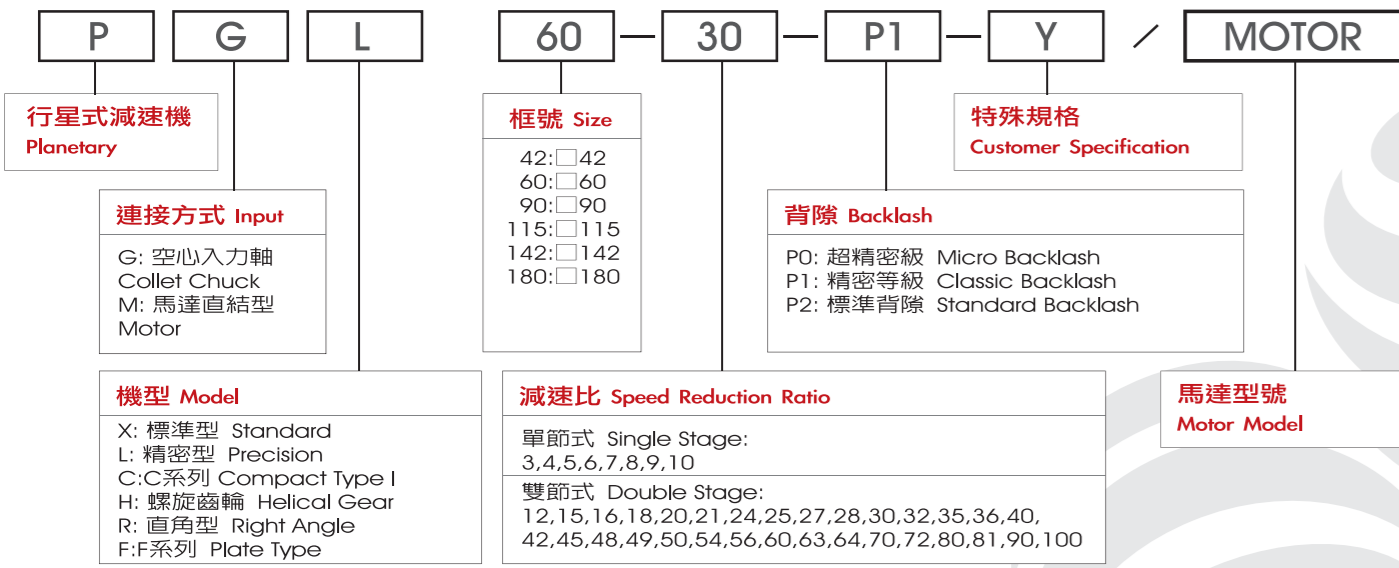


型號定義 CODING SYSTEM



PGR性能規格共表 Specifications Table

規格 Specifications	節數 Stage	減速比 Ratio	PGR-42	PGR-60	PGR-90	PGR-115	PGR-142	
額定輸出力矩 Nominal Output Torque	1	3	13.8	44.2	95.2	283	425	
		4	11.9	35.9	74.6	249	374	
		5	13.8	43.0	85.2	283	425	
		6	12.5	39.4	79.9	266	399	
		7	11.9	36.0	74.6	219	328	
		8	10.9	32.4	63.9	203	304	
		9	9.8	28.7	53.2	174	262	
		10	10.1	17.6	40.9	174	262	
		12	13.8	44.2	95.2	283	425	
		15	13.8	43.0	85.2	283	425	
	20	11.9	35.9	74.6	249	374		
	25	13.8	43.0	85.2	283	425		
	30	12.5	39.4	79.9	266	399		
	35	11.9	36.0	74.6	219	328		
	40	10.9	32.4	63.9	203	304		
	45	9.8	28.7	53.2	174	262		
	50	13.8	43.0	85.2	283	425		
	60	12.5	39.4	79.9	266	399		
	70	11.9	36.0	74.6	219	328		
	80	10.9	32.4	63.9	203	304		
90	9.8	28.7	53.2	174	262			
100	10.1	17.6	40.9	174	262			
最大輸出力矩 Max. Output Torque	N · m		2.5倍額定輸出力矩 2.5 Times Of Nominal Output Torque					
額定輸入轉速 Nominal Input Speed	rpm	1, 2	3000	3000	3000	2500	2000	
最大輸入轉速 Max. Input Speed	rpm	1, 2	3-100	6000	6000	6000	5000	4000
超精密背隙 Micro Backlash P0	arcmin	1	3-10	3	3	3	3	
精密背隙 Classic Backlash P1	arcmin	2	12-100	6	6	6	6	
標準背隙 Standard Backlash P2	arcmin	1	3-10	10	10	10	10	
扭轉剛性 Torsional Rigidity	N·m / arcmin	1, 2	3-100	1.0	2.8	7.5	15.5	30
使用溫度 Operating Temp.	°C		-10°C ~ +50°C					
使用壽命 Service Life	hr		3-100 15,000 (8,000/ 連續運轉 Continuous Operation)					
效率 Efficiency	%	1	3-10	≥95%				
重量 Weight	kg	1	3-10	1.2	3.2	7.5	15.6	26
		2	12-100	1.9	5.3	10.5	20.7	36
安裝方向 Mounting Position		1, 2	3-100 任意方向 Any Direction					
噪音值 Noise Level	dB/1m	1, 2	3-100	65	67	70	70	75
潤滑 Lubrication		1, 2	3-100 尿素基滑脂 Urea Derivatives					

* 本公司有權對以下數據規格進行設計變更不先行告知。The above figures/specifications are subject to change without prior notice.
 * PGR42-90單雙段目前僅提供 P2等級背隙, PGR115-142單雙段目前提供 P1/P2等級。
 * PGR42-90 Single stage only provide P2 B2 Backlash level, PGR115-142 Single / double stage, only provide P1/P2 backlash.
 (產品超限使用, 不在保固範圍) High Light-wrongfully usage, will not be cover under warranty.

An enterprise can only thrive to succeed and develop with humane values and unique products! We, at Sesame Motor Corp., dare to brave changes, and hold fast to the corporate philosophy of "Research and innovate, Persistence in Quality, Share of Honor". Sesame Motor Corp. manufactures all types of precision motors and speed reducers professionally, introduces imported precision Instruments and production machinery equipments, and incorporates an Automated Production Process with Barcode Management. We also emphasize on R&D, make a stringent effort on Quality Control, and lead-in the E-Commerce Systems as well as Enterprise Resource Planning (ERP), for which we earned the CE Certification in 1998, passed the UL Certification in 2002, and gained China Compulsory Product Certification (CCC Certification) since 2004. Currently we are obtaining the ISO 9001:2008 Certification.

Major Products:
 Induction (Reversible) Motor, Precision Gear Motor, Worm Gear Reducer, Variable Speed Motor, DC Motor, Planetary Gear head, Clutch Brake Motor, Torque Motor, Speed Controller.

OEM SERVICES, DESIGN SERVICES & BUYER LABEL SERVICES

SALES AGENTS WANTED WORLDWIDE
 Country & Regional Agents Now In
 China: Shanghai / Nanjing / Kunsan / Dongguan / Shenzhen
 Korea
 Thailand
 ...
 More countries & regional agents to be assigned & discussed



總公司 / Headquarters:
世協電機股份有限公司
 42953 台中市神岡區和睦路599號
 599, Hemu Rd., Shengang, Taichung 42953, Taiwan
 Tel: 886-4-2561-0011 (7 Lines)
 Fax: Sales Dept.: 886-4-2562-7766
 E-mail: info@sesamemotor.com.tw
 http://www.sesamemotor.com

經銷商 / AGENT



行星式減速機、馬達 · 減速機、齒輪馬達 · 立式 / 臥式系列



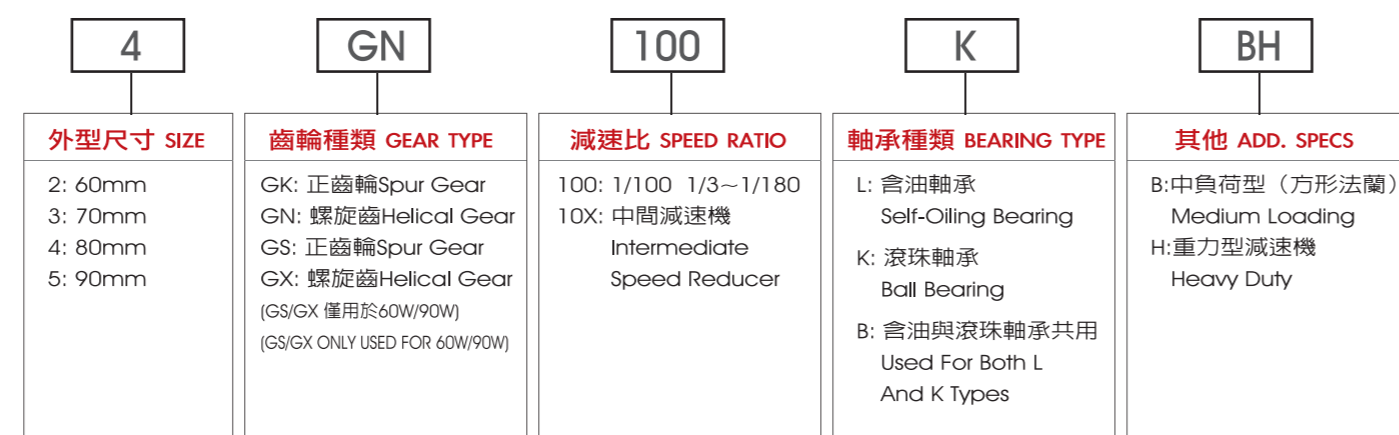
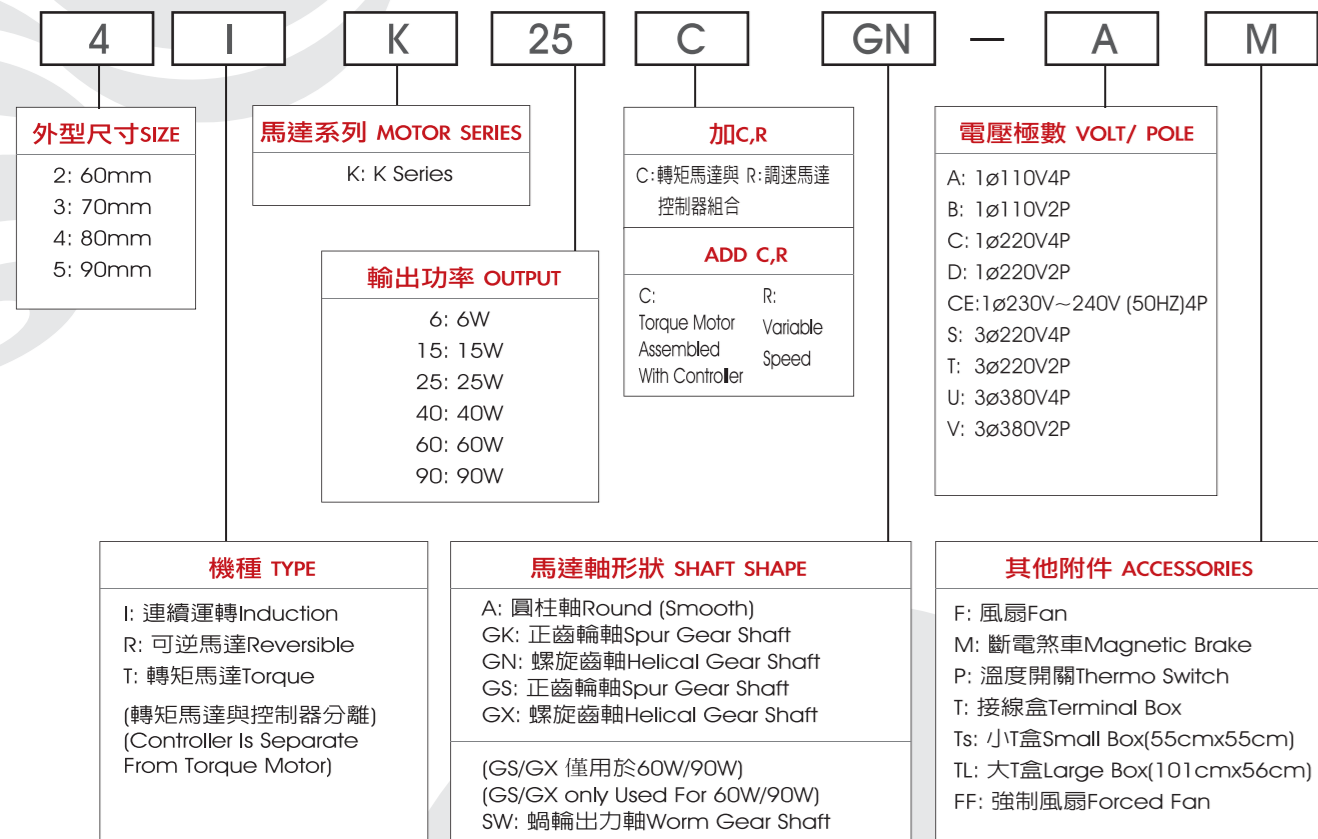
行星式減速機 Planetary Gearhead For Server Motor



PGL性能規格共表 Specifications Table

規格 Specifications	節數 Stage	減速比 Ratio	PGL-42	PGL-60	PGL-90	PGL-115	PGL-142	PGL-180	PGL-220
額定輸出力矩 Nominal Output Torque	1	3	13.8	44.2	95.2	283	425	1151	1670
		4	11.9	35.9	74.6	249	374	1055	1574
		5	13.8	43.0	85.2	283	425	1151	1670
		6	12.5	39.4	79.9	266	399	1055	1574
		7	11.9	36.0	74.6	219	328	1055	1574
		8	10.9	32.4	63.9	203	304	763	1185
		9	9.8	28.7	53.2	174	262	764	1185
		10	10.1	17.6	40.9	174	262	763	1184
		12	13.8	44.2	95.2	283	425	1151	1670
		15	13.8	43.0	85.2	283	425	1151	1670
	20	11.9	35.9	74.6	249	374	1055	1574	
	25	13.8	43.0	85.2	283	425	1151	1670	
	30	12.5	39.4	79.9	266	399	1055	1574	
	35	11.9	36	74.6	219	328	1055	1574	
	40	10.9	32.4	63.9	203	304	763	1184	
	45	9.8	28.7	53.2	174	262	764	1185	
	50	13.8	43.0	85.2	283	425	1151	1670	
	60	12.5	39.4	79.9	266	399	1055	1574	
	70	11.9	36.0	74.6	219	328	1055	1574	
	80	10.9	32.4	63.9	203	304	763	1184	
90	9.8	28.7	53.2	174	262	764	1185		
100	10.1	17.6	40.9	174	262	763	1184		
最大輸出力矩 Max. Output Torque	N · m		2.5倍額定輸出力矩 2.5 Times Of Nominal Output Torque						
額定輸入轉速 Nominal Input Speed	rpm	1, 2	3-100	3000	3000	2500	2000	2000	2000
最大輸入轉速 Max. Input Speed	rpm	1, 2	3-100	6000	6000	6000	5000	4000	4000
超精密背隙 Micro Backlash P0	arcmin	1	3-10	3	3	3	3	3	3
精密背隙 Classic Backlash P1	arcmin	2	12-100	6	6	6	6	6	6
標準背隙 Standard Backlash P2	arcmin	1	3-10	10	10	10	10	10	10
扭轉剛性 Torsional Rigidity	N·m / arcmin	1, 2	3-100	1.0	2.8	7.5	15.5	30	57
使用溫度 Operating Temp.	°C		-10°C ~ +50°C						
使用壽命 Service Life	hr		3-100 15,000 (8,000/ 連續運轉 Continuous Operation)						
效率 Efficiency	%	1	3-10	≥95%					
重量 Weight	kg	1	3-10	0.6	1.2	3.2	7.5	15.6	26
		2	12-100	0.8	1.9	5.3	12	20.7	36
安裝方向 Mounting Position		1, 2	3-100 任意方向 Any Direction						
噪音值 Noise Level	dB/1m	1, 2	3-100	60	62	65	65	70	70
潤滑 Lubrication		1, 2	3-100 尿素基滑脂 Urea Derivatives						

* 本公司有權對以下數據規格進行設計變更不先行告知。The above figures/specifications are subject to change without prior notice.
 * PGR42-90單雙段目前僅提供 P2等級背隙, PGR115-142單雙段目前提供 P1/P2等級。
 * PGR42-90 Single stage only provide P2 B2 Backlash level, PGR115-142 Single stage do provide full range of backlash level.
 (產品超限使用, 不在保固範圍) High Light-wrongfully usage, will not be cover under warranty.



種類 MODELS

本公司的減速機按照馬達的出力有 GN及GX兩種常用機型：
 GN機型...一般負荷用
 GX機型...中負荷用、壽命長
 GX機型 (5GX□KBH)...重負荷用、壽命長、耐衝擊
 According to the motor output, we PRODUCE TWO MOST USAGE REDUCER MODELS:GN AND GX.
 GN: For General Loading, Impact-Resistance.
 (GN models include SELF-OILING bearing and ball bearing)
 GX: For Medium Loading, Long Service Life.
 GX(5GX□KBH): For Heavy Loading, Long Service Life, Impact-Resistance ...

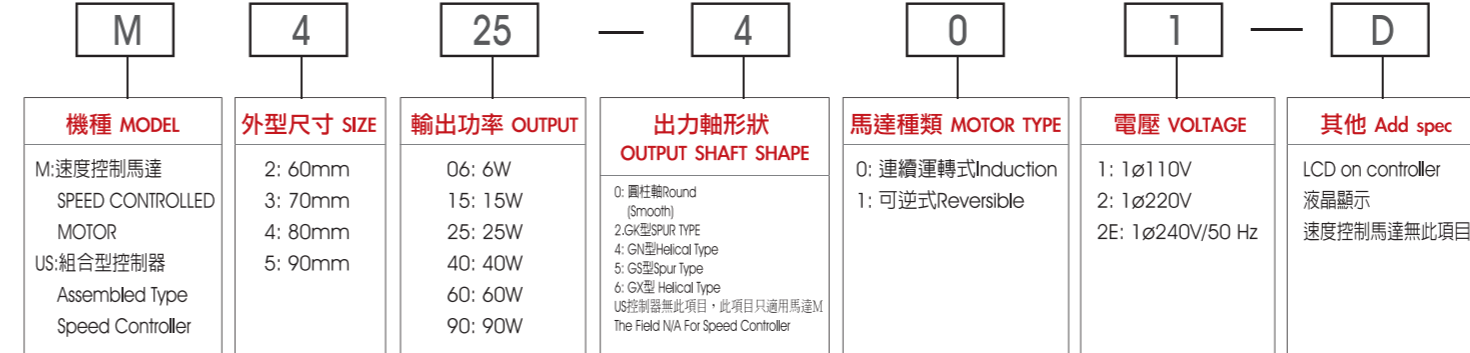
最大容許轉矩 MAXIMUM TORQUE ALLOWED

限於材料或其他條件的限制，減速機能承受的轉矩是有極限的，當減速比變大時，最大容許轉矩如右圖。
 The maximum torque a speed reducer can tolerate is limited due to materials or other specs. As the reduction ratio is increased, the maximum torque allowed is seen as the chart below on the right.

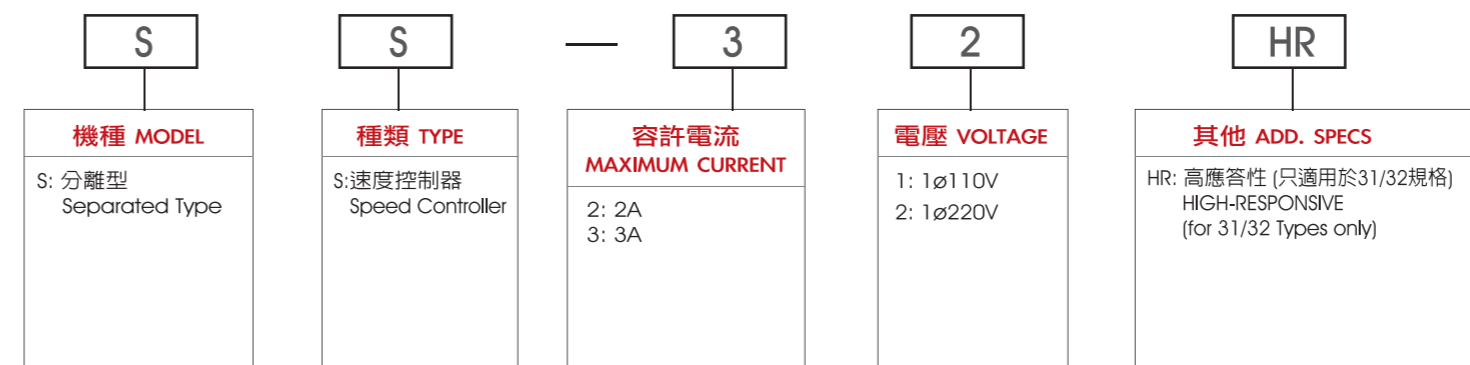
減速機 SPEED REDUCER 4 GN 15K	馬達 (齒輪軸) MOTOR (GEAR SHAFT) 41K25 GN-A
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減速機 SPEED REDUCER 4 GN25K	中間減速機 INTERMEDIATE SPEED REDUCER 4 GN10X	馬達 (齒輪軸) MOTOR (GEAR SHAFT) 4 IK25 GN-A
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分離型控制器 Separated Type Speed Controller



組合型 ASSEMBLED TYPE

組合型無段變速馬達
 ASSEMBLED TYPE SPEED CONTROLLED MOTOR



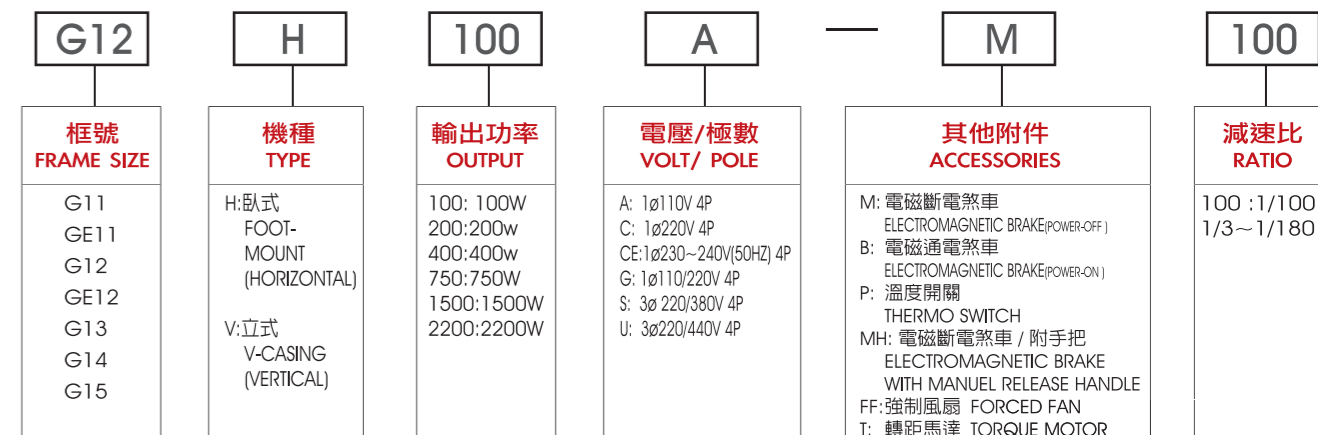
組合型控制器
 ASSEMBLED TYPE SPEED CONTROLLED

分離型 SEPARATED TYPE

分離型無段變速馬達
 SEPARATED TYPE SPEED CONTROLLER MOTOR



分離型控制器
 SEPARATED TYPE SPEED CONTROLLER



馬達

外殼材質：(G11,G12,G13) 鋁合金
 (GE11,GE12,G14,G15) 鑄鐵
 絕緣等級：E
 啟動方式：
 3相：全壓直接啟動
 單相：100W~400W全壓直接啟動
 1 HP~3HP離心開關啟動

電源：

3相：220/380V 60Hz 6線式
 220/440V 60Hz 9線式
 以上表示此馬達的額定輸出功率是在頻率60Hz處。
 馬達可使用頻率範圍為30Hz~120Hz。
 30Hz以下因散熱效果不佳，建議加裝強制風扇(獨立供電)冷卻。
 單相：110/110V 50Hz / 60Hz
 以上表示此馬達的額定輸出功率是在頻率50Hz時
 使用110V 電壓，在60Hz時為110V 電壓。
 220/220V 50Hz / 60Hz
 以上表示此馬達的額定輸出功率是在頻率50Hz時
 使用220V 電壓，在60Hz時為220V 電壓。
 110V/220V 50Hz → 意指50Hz使用單相雙電壓馬達
 110V/220V 60Hz → 意指60Hz使用單相雙電壓馬達
 ★單相馬達 50HZ 與 60HZ 需使用不同電功內容的線圈。
 The single phase 50Hz/60Hz motor must adopt different coil design.

MOTOR

Case material : Aluminum Alloy (G11,G12,G13)
 Cast-iron (GE11,GE12,G14,G15)
 Insulation class : E
 Starting :
 3 Phase : Full Voltage Starting
 1 Phase : 100W~400W Capacitor Starting
 1 HP~3HP Centrifugal Starting Switch

Power :

3 Phase : 220/380V 60Hz 6 Wires
 220/440V 60Hz 9 Wires
 Above specs indicate that the rated output is measured at 60Hz. Available frequency range for a motor is between 30Hz~120Hz. To avoid overheating, we suggest that motors under 30Hz be fitted with a fan (separate power supply).
 1 Phase : 110/110V 50Hz / 60Hz
 Above specs indicate that the rated output is 50Hz at 110V, 60Hz at 110V.
 220/220V 50Hz / 60Hz
 Above specs indicate that the rated output is 50Hz at 220V, 60Hz at 220V.
 110V/220V 50Hz : 1 Phase Dual-Voltage Motor at 50Hz
 110V/220V 60Hz : 1 Phase Dual-Voltage Motor at 60Hz



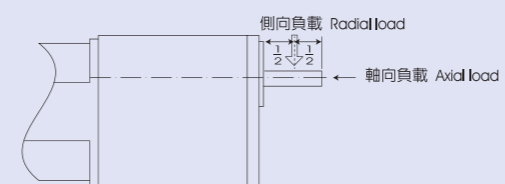
絕緣阻抗	在常溫常濕以額定運轉後，線圈與外殼間以DC 500V高阻計量測，測定值在100MΩ以上。
絕緣耐力	在常溫常濕以額定運轉後，線圈與外殼間以60Hz，1.0kV加入一分鐘無異狀。
溫度上升	在額定運轉後以溫度計法測定，溫度上升值在55°C以下。 (耐風扇馬達45°C以下，電容器組合馬達60°C以下。)
周溫範圍	-10°C ~ 50°C (電容器組合馬達 -10°C ~ +40°C)
絕緣等級	E級 (120°C)
INSULATING RESISTANCE	Using a DC 500v hi-resistance meter, Tested value is above 100MΩ at coil and housing under rated operating condition at normal temperature and humidity.
INSULATING DURABILITY	Hi-pot test (60Hz, 1.0KV, 1 MINUTE) under rated operating condition at normal temperature and humidity produced no damage at coil and housing.
TEMPERATURE RISE	△T is below 55°C as tested by a thermometer under rated operating condition. (Below 45°C if with a fan, below 60° as if motor is equipped with a capacitor)
AMBIENT TEMPERATURE	-10°C ~ 50°C (-10°C ~ +40°C if motor is equipped with a capacitor)
INSULATION CLASS	E class (120°C)

(產品超限使用，不在保固範圍) Hish Ligh-wrongfully usage, will not be cover under warranty.

容許側向負載及容許軸向負載
 ALLOWABLE RADIAL LOAD AND AXIAL LOAD

所謂側向負載，就是出力軸在1/2處可以承受的彎曲負載，一般使用於以鏈條連結的機構。若是使用的連結器傳動的方式，可以不考慮。因為側向負載與軸向負載會影響減速機的壽命及強度，請勿超負載使用。

Radial load refers to the bending load and output shaft bears at the half-way point, commonly used in units linked by chains. Radial load can be disregarded if a coupler is used. Do not over-work the reducer since radial load and axial load may affect its service-life and strength.



此表僅供參考用 FOR REFERENCE ONLY

品名 MODEL	最大容許轉矩 MAX. ALLOWABLE TORQUE (kg.cm)	容許懸掛荷重 ALLOWABLE HANGING LOAD (kg)	容許推動荷重 ALLOWABLE MOVING LOAD (kg)
2GN	25	5	3
2GN□K	25	10	3
3GN	50	10	4
3GN□K	50	20	4
4GN	80	20	5
4GN□K	80	30	5
5GN	100	30	10
5GN□K	100	40	10
5GX□K(B)	200	60	15
5GX□KBH	350	80	15

機種規格表 MODEL SPECIFICATIONS

品名 MODEL	SS21	SS22	SS31-HR	SS32-HR
電源範圍 POWER RANGE	100~125V	200~240V	100~125V	200~240V
頻率 FREQUENCY	50/60Hz			
最大容許電流 MAX. CURRENT ALLOWED	2A	2A	3A	3A
適用馬達 SUITABLE MOTOR	6W-90W			
速度控制範圍 SPEED CONTROL RANGE	90~1400rpm (50Hz) / 90~1700rpm (60Hz)			
速度變動率 VARIABLE SPEED RATION	5%	5%	3%	3%
瞬時剎車 INSTANT BRAKE	-	-	電子式剎車 Electronic Brake	電子式剎車 Electronic Brake
剎車保持力時間 BRAKE HOLDING TIME	-	-	0.5 秒 0.5 Second	0.5 秒 0.5 Second
絕緣阻抗 INSULATION RESISTANCE	外殼與各端子間以DC 500V高阻計量測，測定值在10MΩ以上。 Tested value at 10MΩ and above, measured by DC 500V Hi-Resistance meter between the housing and terminals.			
絕緣耐壓 HI-POT INSULATION	外殼與各端子間以60Hz, 1kV加入一分鐘無異狀。 No damages caused after 1kV at 60Hz was tested between the housing and terminals.			
使用環境溫度 ENVIRONMENTAL TEMPERATURE	-10~+40°			
保存溫度 STORAGE TEMPERATURE	-20~+60°			

(產品超限使用，不在保固範圍) Hish Ligh-wrongfully usage, will not be cover under warranty.

推桿馬達 Linear Actuator

