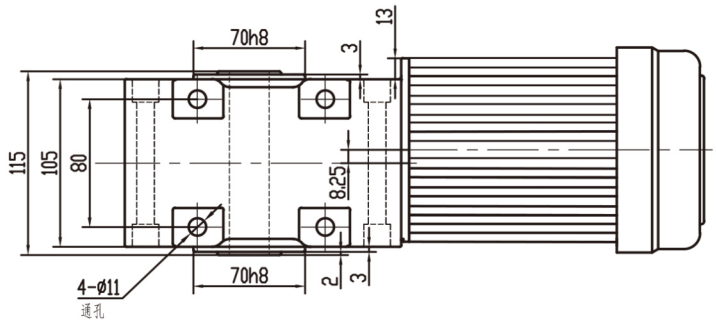
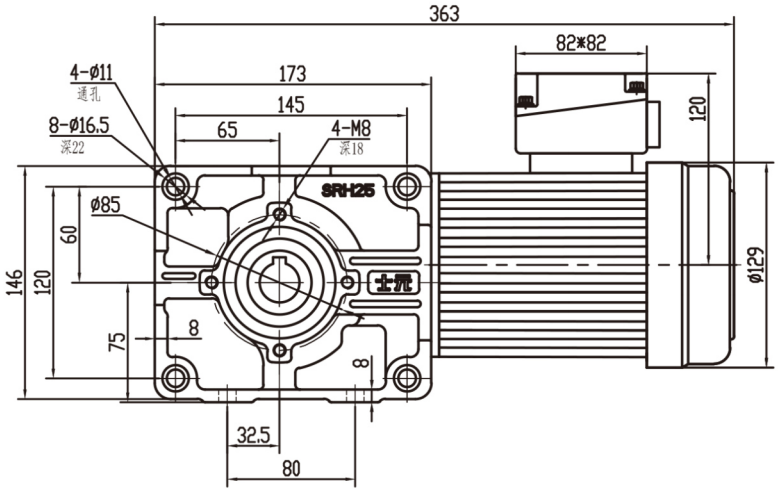
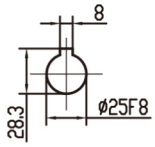
SRH25准雙曲面齒輪減速馬達

SRH25 hypoid gear reduction motor



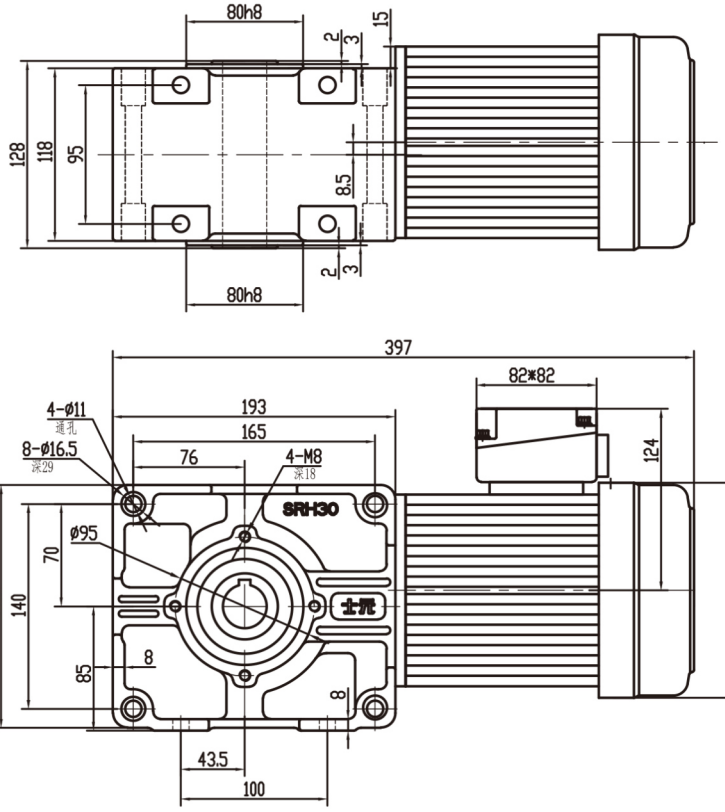


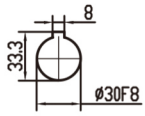


框號	減速比	0.1kW		輸出軸容許轉矩 0.2kW		0.4kW		輸出軸容許 O.H.L	
		N.m	Kgf.m	N.m	Kgf.m	N.m	Kgf.m	N.m	Kgf
SRH25	1/5	3.1	0.31	5.5	0.56	11	1.1	1300	135
	1/10	5.2	0.66	11	1.1	23	2.3	1520	155
	1/15	7.7	0.79	17	1.7	33	3.4	1720	175
	1/20	11	1.10	23	2.3	44	4.5	1860	190
	1/25	13	1.30	27	2.8	55	5.6	2010	205
	1/30	16	1.60	33	3.4	67	6.8	2110	215
	1/40	21	2.10	44	4.5	67	6.8	2300	235
	1/50	25	2.60	55	5.6	67	6.8	2450	250
	1/60	31	3.20	67	6.8	67	6.8	2550	260
	1/80	39	4.00	84	8.6			2550	260
	1/100	49	5.00	105	10.7			2550	260
	1/120	59	6.00	105	10.7			2550	260
	1/160	78	8.00	105	10.7			2550	260
	1/200	98	10.00	105	10.7			2550	260
	1/240	101	10.30	105	10.7			2550	260

SRH30准雙曲面齒輪減速馬達

SRH30 hypoid gear reduction motor

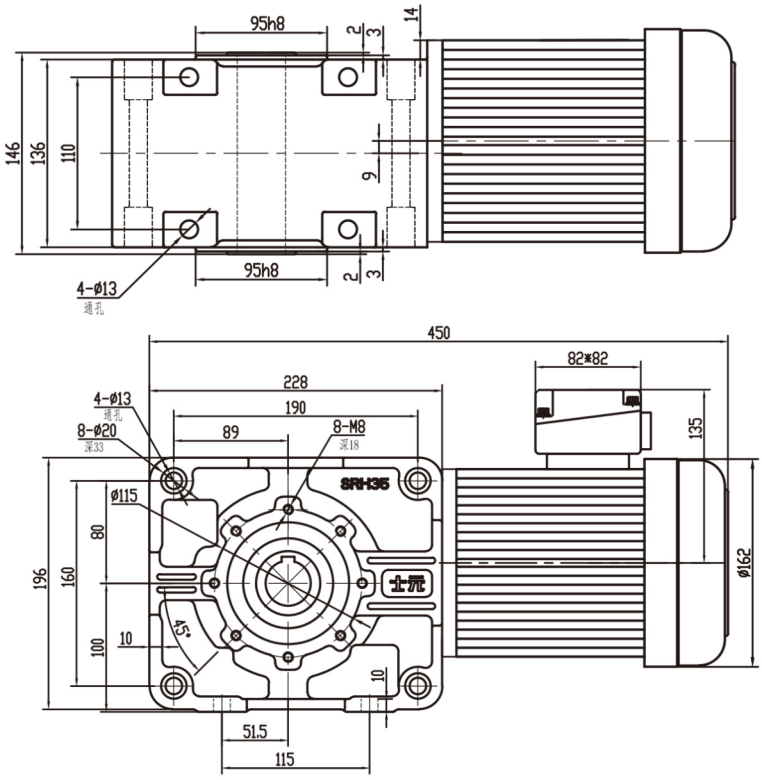


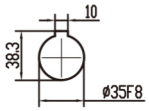


框号	减速比	输出轴容许转矩						输出轴容许	
		0.2kW		0.4kW		0.55kW		O.H.L	
		N.m	Kgf.m	N.m	Kgf.m	N.m	Kgf.m	N.m	Kgf
SRH30	1/5	5.5	0.56	11	1.1	15.4	1.54	1520	155
	1/10	11	1.1	23	2.3	30.8	3.08	1760	180
	1/15	17	1.7	33	3.4	46.2	4.62	1910	195
	1/20	23	2.3	44	4.5	61	6.17	2060	210
	1/25	27	2.8	55	5.6	72	7.2	2160	220
	1/30	33	3.4	67	6.8	92	9.2	2400	245
	1/40	44	4.5	88	9	92	9.2	2550	260
	1/50	55	5.6	111	11.3	92	9.2	2650	270
	1/60	67	6.8	133	13.6	92	9.2	2840	290
	1/80	84	8.6	169	17.2			2990	305
	1/100	105	10.7	211	21.5			3090	315
	1/120	126	12.9	211	21.5			3090	315
	1/160	169	17.2	211	21.5			3140	320
	1/180	176	17.9	211	21.5			3140	320
	1/240	213	21.7	211	21.5			3140	320

SRH35准雙曲面齒輪減速馬達

SRH35 hypoid gear reduction motor

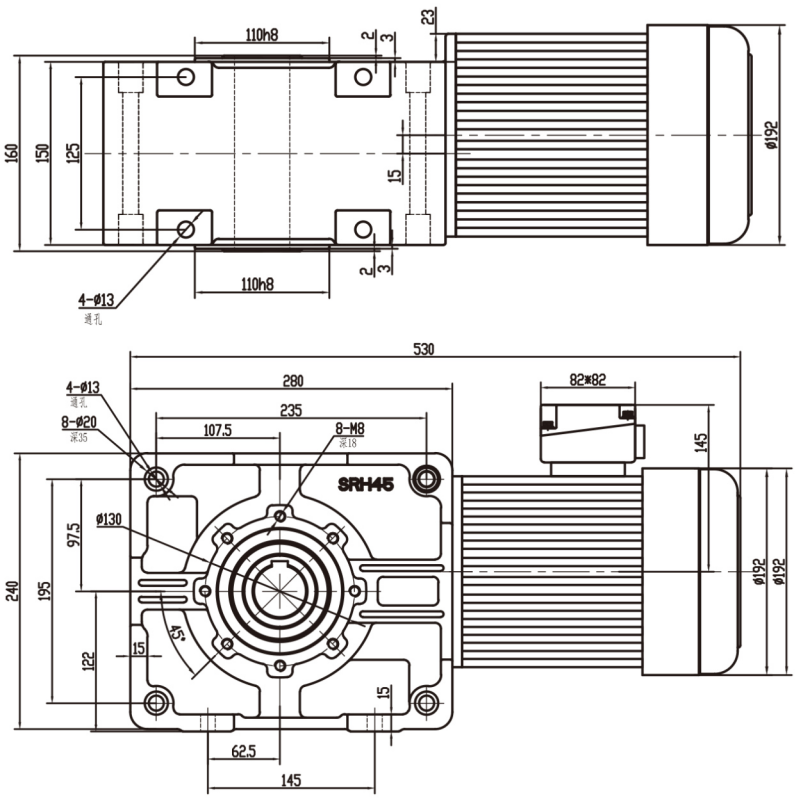


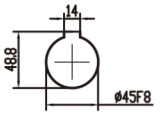


框号	减速比	输出轴容许转矩						输出轴容许	
		0.4kW		0.75kW		1.1kW		O.H.L	
		N.m	Kgf.m	N.m	Kgf.m	N.m	Kgf.m	N.m	Kgf
SRH35	1/5	11	1.1	21	2.1	30.8	3.1	1960	200
	1/10	23	2.3	41	4.2	61.7	6.2	2450	250
	1/15	33	3.4	63	6.4	92.5	9.3	2740	280
	1/20	44	4.5	83	8.5	123	12.3	2990	305
	1/25	55	5.6	104	10.6	154	15.4	3190	325
	1/30	67	6.8	124	12.7	185	18.5	3280	335
	1/40	88	9	166	16.9	247	24.7	3480	355
	1/50	111	11.3	208	21.2	308	30.8	3480	355
	1/60	133	13.6	249	25.4	370	37.2	3480	355
	1/80	169	17.2	316	32.2	370	37.2	3480	355
	1/100	211	21.5	395	40.3	370	37.2	3530	360
	1/120	253	25.8	473	48.3	370	37.2	3530	360
	1/160	270	27.6	473	48.3			3630	370
	1/200	329	33.5	473	48.3			3630	370
	1/240	386	39.3	473	48.3			3630	370

SRH45准雙曲面齒輪減速馬達

SRH45 hypoid gear reduction motor

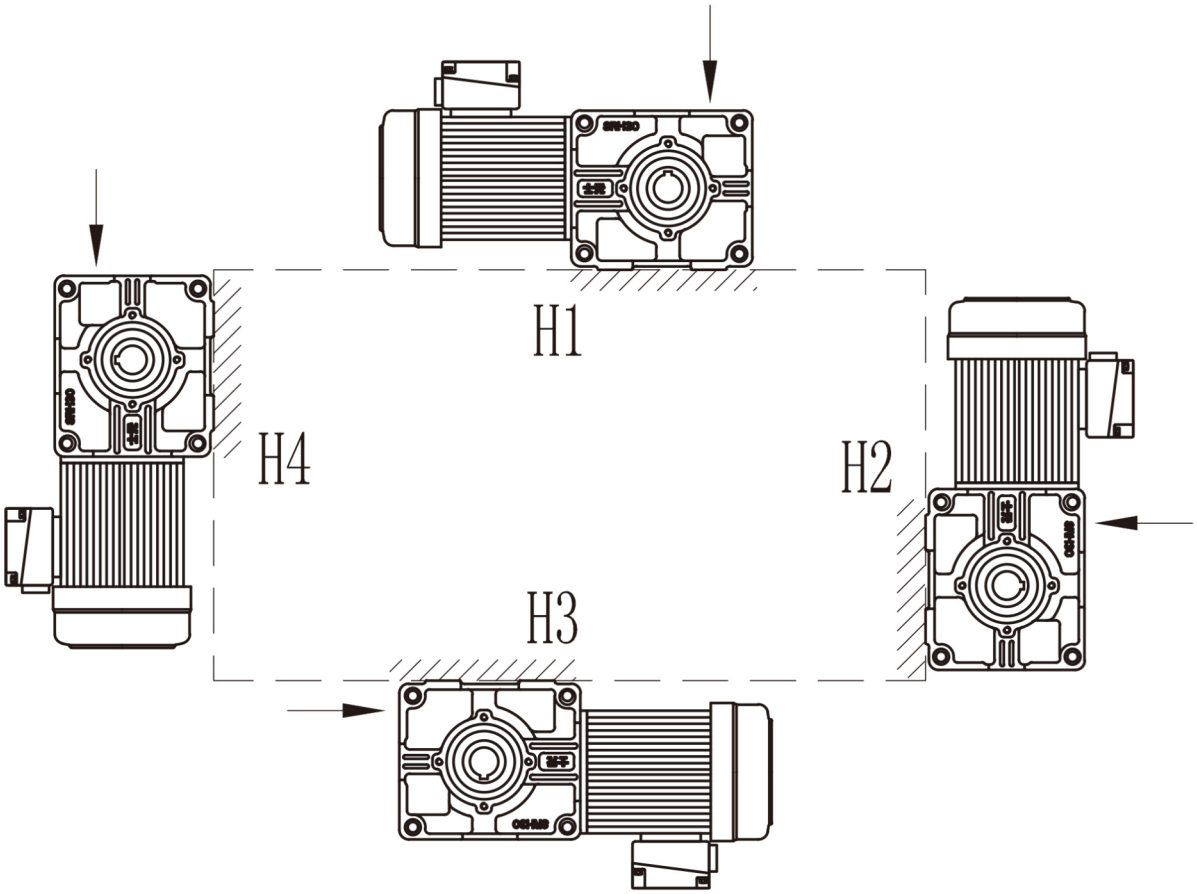


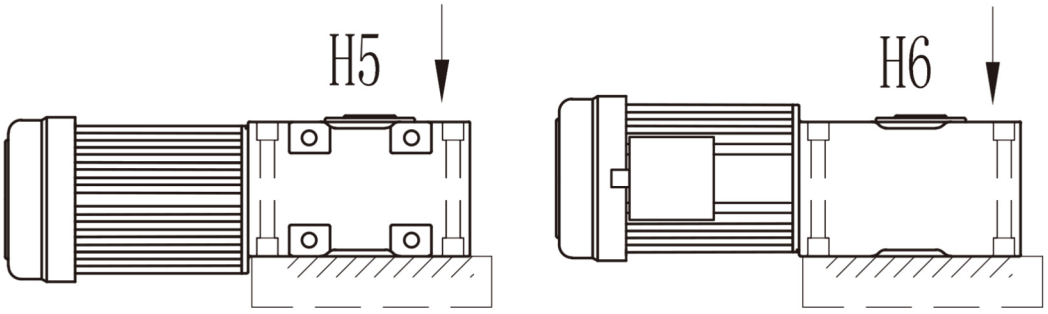


框号	减速比	输出轴容许转矩								输出轴容许	
		0.75kW		1.1kW		1.5kW		2.2kW		O.H.L	
		N.m	Kgf.m	N.m	Kgf.m	N.m	Kgf.m	N.m	Kgf.m	N.m	Kgf
SRH45	1/5	21	2.1	30.8	3.1	41	4.2	61	6.2	2940	300
	1/10	41	4.2	61.7	6.2	83	8.5	122	12.4	3630	370
	1/15	63	6.4	92.5	9.3	124	12.7	182	18.6	4070	415
	1/20	83	8.5	123	12.3	166	16.9	244	24.9	4460	455
	1/25	104	10.6	154	15.4	208	21.2	305	31.1	4700	480
	1/30	124	12.7	185	18.5	249	25.4	366	37.3	4750	485
	1/40	166	16.9	247	24.7	332	33.9	487	49.7	4750	485
	1/50	208	21.2	308	30.8	416	42.4	487	49.7	4750	485
	1/60	249	25.4	370	37.2	498	50.8	487	49.7	4750	485
	1/80	316	32.2	493	49.5	498	50.8	487	49.7	4750	485
	1/100	395	40.3	617	61.7	498	50.8	487	49.7	4750	485
	1/120	473	48.3	740	74.2	498	50.8			4750	485
	1/160	554	56.5	925	92.5	498	50.8			5190	530
	1/200	650	66.3	925	92.5	498	50.8			5190	530
	1/240	735	75.0	925	92.5	498	50.8			5190	530

安装方位图

INSTALLATION POSITIONS DIAGRAM





技術資料 *Technical data*

標准馬達規範表 (Standard Motor Specification)

<table>
<tr><td>項目 Item</td><td colspan="3">三相交流馬達 3–Phase Motor</td><td colspan="3">單相交流馬達 1–Phase Motor</td></tr>
<tr><td>防護等級
Protection</td><td colspan="3">全密閉外扇形 IP–54 Totally
Enclosed Fan Cooled Type</td><td colspan="3">半密閉外扇形
Semi–Enclosed Fan Cooled Type</td></tr>
<tr><td>外殼材質
Housing
Material</td><td>0.1KW–2.2KW
1/8HP–3HP</td><td colspan="2">鋁合金 Alumalloy</td><td>0.1KW–0.75KW
1/8HP–1HP</td><td colspan="2">鋁合金 Alumalloy</td></tr>
<tr><td rowspan="2">啓動方式
Staring</td><td colspan="3" rowspan="2">全壓啓動
Direct Start</td><td>0.1KW–0.2KW
1/8HP–1/4HP</td><td colspan="2">運轉電容啓動 Capacitor</td></tr>
<tr><td>0.4KW–0.75KW
1/2HP–1HP</td><td colspan="2">啓動電容＋電子開關</td></tr>
<tr><td>工作方式
Timerating</td><td colspan="3">連續運轉
Continuous Running</td><td colspan="3">連續運轉
Continuous Running</td></tr>
<tr><td>絶緣等級
Insulation</td><td colspan="3">F－絶緣
F–Class</td><td colspan="3">F－絶緣
F–Class</td></tr>
<tr><td>適用環境
Environment</td><td colspan="6">温度：–10 ~ +40℃ Temperature Between –10℃ To + 40℃
濕度：90%以下 Humidity Less Than 90%</td></tr>
<tr><td rowspan="2">適用電壓
Voltage</td><td>50Hz</td><td colspan="2">220V, 230V, 240V, 380V,
400V, 415V, 440V</td><td>50Hz</td><td colspan="2">110V,115V, 200V,
220V, 230V</td></tr>
<tr><td>60Hz</td><td colspan="2">220V, 240V, 380V, 415V,
440V, 460V, 480V, 600V</td><td>60Hz</td><td colspan="2">110V, 220V, 240V</td></tr>
<tr><td>適用極數
Pole</td><td colspan="3">4P, 6P, 8P</td><td colspan="3">4P</td></tr>
<tr><td rowspan="2">輸出轉速(4p)
Output Speed</td><td>50Hz</td><td colspan="2">1350–1450rpm</td><td>50Hz</td><td colspan="2">1350–1450rpm</td></tr>
<tr><td>60Hz</td><td colspan="2">1650–1740rpm</td><td>60Hz</td><td colspan="2">1650–1740rpm</td></tr>
<tr><td>依據標准
Standard</td><td colspan="6">國標 / 國家標准 IEC–34，CNS–10919</td></tr>
<tr><td>海拔
Sealevel</td><td colspan="6">1000米 Under 1000m</td></tr>
<tr><td>接綫盒
Terminal Box</td><td colspan="6">采用 IP55 級防水型鋁合金接綫盒
With IP–55 Class Water–proof Aluminum Terminal Box</td></tr>
</table>

士元 SHIYUAN

技術資料 *Technical data*

1) 三相電壓全負載電流值 (3–Phase/4–Poles Full Load Ampere)

輸出功率 Power	50Hz-4P					60Hz-4P				
	220V	380V	415V	440V	RPM	220V	380V	440V	460V	RPM
0.1KW 1/8HP	0.60	0.40	0.32	0.30	1420	0.6	0.40	0.30	0.29	1720
0.2KW 1/4HP	1.2	0.7	0.70	0.58	1420	1.1	0.63	0.55	0.52	1720
0.4KW 1/2HP	2.0	1.1	1.13	1.07	1420	1.9	1.10	0.95	0.91	1720
0.55KW 3/4HP	2.85	1.65	1.73	1.58	1420	2.8	1.6	1.55	1.52	1720
0.75KW 1HP	3.5	2.0	1.94	1.84	1420	3.4	1.96	1.70	1.63	1720
1.1KW 1.5HP	4.0	4.0	2.4	2.37	1420	3.9	2.25	2.32	2.28	1720
1.5KW 2HP	6.3	3.64	3.49	3.30	1420	6.1	3.53	3.05	2.92	1720
2.2KW 3HP	9.1	5.3	4.74	4.47	1420	8.7	5.04	4.35	4.16	1720

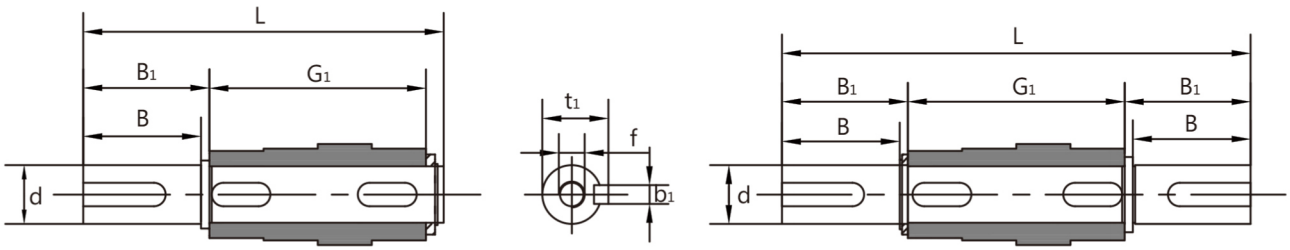
2) 單相電壓全負載電流值 (1–Phase/4–Poles Full Load Ampere)

輸出功率 Power	50Hz-4P		60Hz-4P	
	220V	RPM	220V	RPM
0.1KW 1/8HP	1.1	1410	1.1	1720
0.2KW 1/4HP	1.5	1410	1.5	1720
0.4KW 1/2HP	4.0	1420	3.9	1730
0.75KW 1HP	6.7	1420	6.4	1730
1.5KW 2HP	11.5	1430	11.7	1740

3) 單相馬達電容器規格 (1–Phase Motor Capacitor)

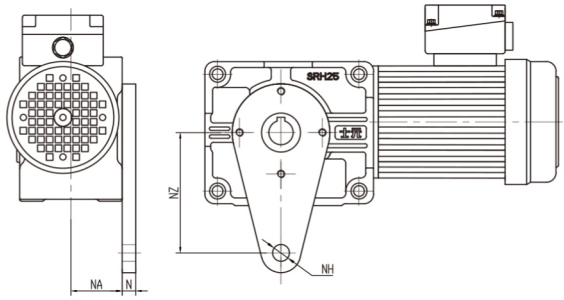
輸出功率		運轉電容	啓動電容
0.1KW	1/8HP	8μF-450V	-----
0.2KW	1/4HP	12μF-450V	-----
0.4KW	1/2HP	14μF-450V	100μF-250V
0.75KW	1HP	20μF-450V	200μF-250V
1.5KW	2HP	50μF-450V	400μF-250V

輸出軸/*Output Shafts*



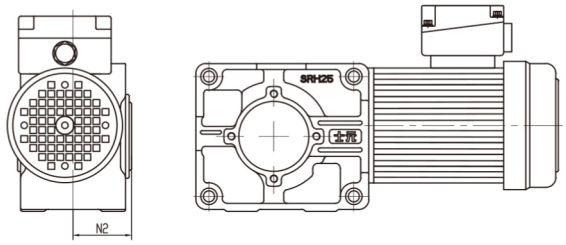
SRH	dh6	B	B_1	G_1	L	L_1	f	b_1	t_1
25	25	50	54	115	176. 5	224	M10*27	8	28
30	30	50	54	128	192	239	M10*27	8	33
35	35	60	64	146	220	277	M10*27	10	38
45	45	80	84	160	256	333	M10*34	14	48. 8

扭力臂/*Torque Arm*



SRH	NE	N	NA	NH
25	100	14	52. 5	10
30	150	14	59	10
35	200	25	68	20
45	200	25	75	20

防塵蓋/*Cover*



SRH	N2
25	70
30	78
35	88
45	95

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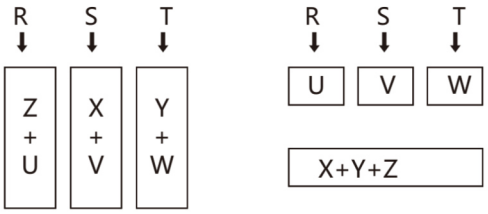
接綫圖 *Wiring Diagram*

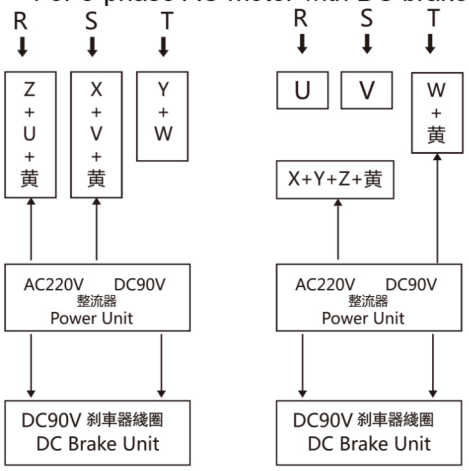
(a) 三相馬達接綫圖 For 3-phase AC motor



低壓 △
Low Volt

高壓 Y
High Volt

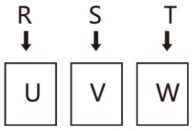
(b) 三相馬達附直流剎車器接綫圖
For 3-phase AC motor with DC brake



△
Low Volt

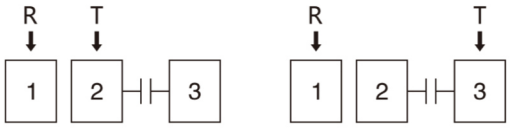
高壓 Y
High Volt

(c) 三相輪流風機接綫圖
For 3-phase forced fan



AC 380V / 50Hz

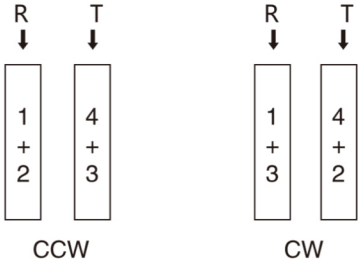
(d) 單相三條綫馬達接綫圖 For 1-phase AC motor/3wires



逆时针 CCW

顺时针 CW

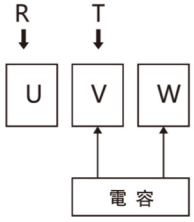
(e) 單相四條綫馬達接綫圖
For 1-phase AC motor/4wires



CCW

CW

(f) 單相輪流風機接綫圖
For 1-phase forced fan



AC 220V / 50Hz

連接圖 CONNECTION DIAGRAM

與變頻器的組合 Combined With Frequency Converter

可以使用頻率範圍 Frequency range can be used

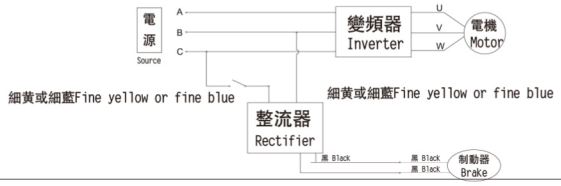
一般請在5~120Hz範圍内使用。
（注：當頻率低于30Hz時，電機表面温度會較高。
・超過60Hz高速運轉時的注意事項
在超過60Hz的高速運轉中，振動、噪音將會 加。
另外轉速加快會降低油封的使用壽命。
・低速運轉時注意事項
低速運轉中，由于電動機的冷却效果低下經常會引起温度的异常上升，請格外注意。
（請將電動機表面温度控制在80℃以下。）

In general, please use the 5~120Hz range.
Note: when the frequency is lower than 30Hz, the surface temperature will be higher
・More attention than the 60Hz high speed operation
Vibration and noise will be increased in the high speed operation of more than 60Hz.In addition, the speed will be accelerated to reduce the life of the oil seal.
・Low speed operation matters needing attention
Low speed operation, due to the cooling effect of the motor is often caused by the abnormal temperature rise, please pay extra attention to.
(Please control the motor surface temperature below 80℃).

電動機的轉矩力特征(使用限度）Torque characteristics of the motor (Limit)
電動機的轉矩力特征(使用限度)根據所使用的變頻器的種類及控制方法的不同而産生巨大差异。Torque characteristics of the motor (Use limit} caused great differences according to the types and controlling methods used by different frequency converter.

帶電磁制動時 With electromagnetic brake
制動部配綫請與變頻器(變頻器的輸入側供電)并聯。（輸出側電旺變動可能會引起制動部的運行不穩定狀况。）
連接圖標記如下，請加以参照.
The wiring of the brake unit is in parallel with the input side of the converter flnverter). (The output side voltage fluctuation may cause the brake part to run unstable.) Connection icon in mind as follows, please refer to,

交流電開關（A）
AC Switch (A)



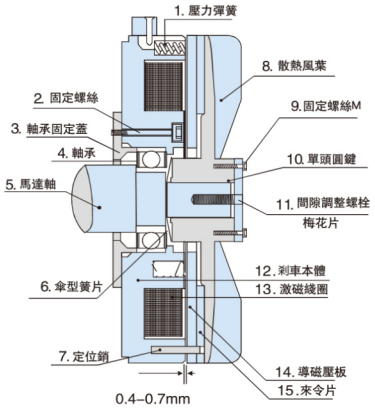
用變頻器驅動380V電動機時 When the 380V motor is driven by frequency converter

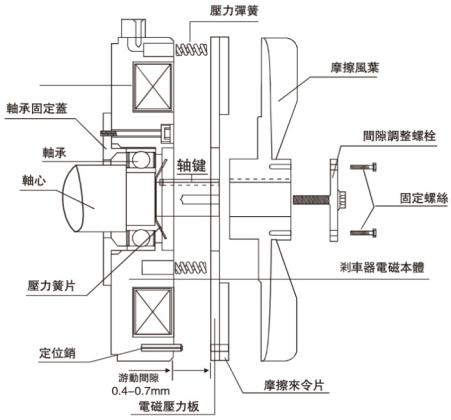
電動機端子間會發生浪涌電壓，可能會導致電動機絶緣性能的劣化。 爲防止浪涌電壓，一般采用抑制電壓增强（輸出電抗器）和抑制波高值（輸出濾波器）兩種方法。
・輸出電抗器 配綫較短時，可在變頻器的輸出側設置AC電抗器，通過抑制電壓的增强 從而減弱浪涌電壓。 如果配綫過長則難以抑制電壓的高波值。
・輸出濾波器
在變頻器的輸出側設置濾波器，可以抑制電動機端子電壓的高波值。

Surge voltage can occur between the motor terminals, which may lead to deterioration of the insulation performance of the motor.
In order to prevent the surge voltage, by suppressing voltage enhancement (output reactor) and suppress the peak value (output filter) two methods.
·Output reactor
Wiring shorter, can be set at the output side of the inverter AC reactor, through the su卯ression of voltage enhancement to reduce the surge voltage.
If the wiring is too long, it is difficult to suppress the high wave value of vottage.
·Output fitter
The filter can be arranged at the output side of the frequency converter, which can restrain the high wave value of the terminal voltage of the motor.

上述僅爲一般情况，翼體事宜請商變頻器廠家咨詢。The above is only the general situation, the specific matters, please consult the inverter manufacturers.

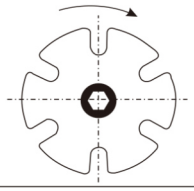
刹車零件分解圖 *Brake Unit Section Diagram*





1	壓力彈簧	Pressure Spring	9	固定螺絲	Fixed Screw
2	固定螺絲	Fixed Screw	10	固定鍵	Key
3	軸承固定蓋	Fixed Bearing Plate	11	調整螺栓	Gap Adjustment Bolt
4	軸承	Bearing	12	刹車本體	Brake Housing
5	馬達軸	Motor Shaft	13	激磁綫圈	Brake Coil
6	傘型簧片	Disc Spring	14	導磁壓板	Friction Plate
7	定位銷	Fixed Pin	15	來令片	Friction Brake Disc
8	散熱風葉	Fan			

刹車間隙調整 Adjust Brake Clearance



1. 請先移除固定螺絲。
   Please Remove Two Pieces Fixed Screws In Advance.

2. 每向右調整一格其間距縮小0.07–0.10mm。
   Every Single Position Adjustment. Brake Clearance Will Reduce 0.07–0.10mm.

直流安全式刹車器規格 (Ac Brake Unit Specification)

輸出功率 CAPACITY (HP)	刹車制動力 TORQUE (KG-M)	刹車間隙 CLEARANCE (MM)	刹車時間 BRAKE (SEC)	釋放時間 RELEASE (SEC)	刹車綫圈			重量 WEIGHT (KG)
					電壓 VOLTAGE (DC-V)	電流 AMP (A)	阻抗OHM (Ω)	
1/4HP4P	0.20	0.2-0.60	0.22	0.12	95±10%	0.17	565	3.5
1/2HP4P	0.40	0.2-0.60	0.24	0.13	95±10%	0.28	336	4.0
1HP4P	0.80	0.3-0.65	0.22	0.12	95±10%	0.41	233	5.0
2HP4P	1.50	0.3-0.65	0.28	0.15	95±10%	0.57	167	6.0
3HP4P	2.20	0.4-0.70	0.28	0.18	95±10%	0.73	130	8.0
5HP4P	4.50	0.4-0.70	0.28	0.18	95±10%	0.73	130	10.0
7.5HP4P	5.60	0.5-0.90	0.38	0.21	95±10%	1.02	93	12.5

備注 REMARK

1. 直流刹車器安裝尺寸相同于原有標准馬達 DC BRAKE UNIT LENGTH SAME ORIGINAL STANDARD MOTOR
2. 采用非石棉刹車來令片材質 ADOPT MATERIAL WITH NON-ASBESTOS BRAKE DISC
3. 適用電壓AVAILABLE VOLTAGE 220V,380V,400V,440V,460V
4. 刹車電壓爲DC90V BRAKE COIL VOLTAGE:DC90V
5. 適用配件OPTINAL DESIGN
   a. 可附加手動釋放刹車裝置 AVAILABLE FOR MANUAL RELEASE BRAKE SYSTEM
   b. 可接受特殊訂制DC刹車器及專用刹車機型 AVAILABLE FOR SPECIAL BRAKE DESIGN

實現裝置小型化，節約開發成本

To achieve miniaturization, saving development costs

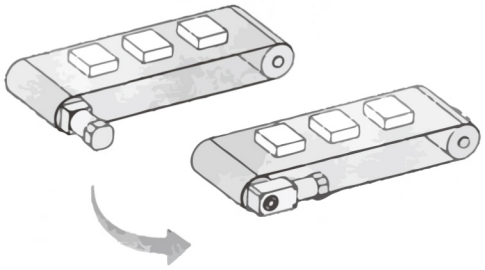
（直交軸減速電動機）

(Right angle speed reducer motor)

※最適于節省空間 The Most Suitable To Save Space

負載軸與電動機部分成直角，故可節省作業空間·

The load shaft and the electric motor are at right angles, so the working space can be saved.



圖爲輸出功率200W ，減速比5的平行軸減速電動機與直交軸減速電動機的比較。

The figure is the comparison of the output power 200W, the reduction ratio of 5 parallel shaft motor and the speed reduction motor.

安裝自由度高的設計

High degree of freedom of the design

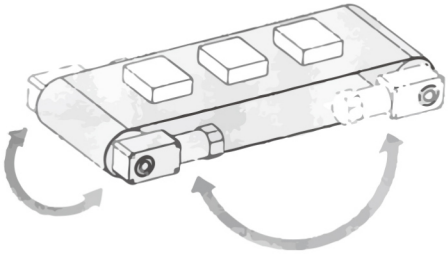
（直交軸減速電動機）(Direct axis speed reducer motor)

左右同心軸構造 Left And Right Concentric Axis Structure

減速機的輸出軸位于安裝面上下方向的中心處的構造·

安裝在輸送的等裝置的時候，不管安裝方向是向左還是向右，都不需要改 變安裝孔的位置。

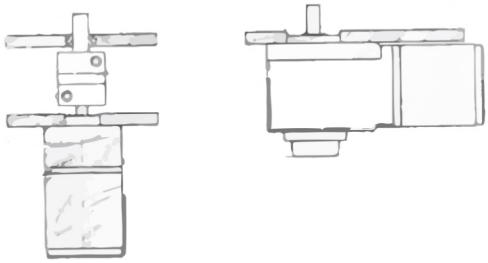
The output shaft of the speed reducer is arranged at the center of the upper and the lower direction of the mounting surface. When installed in the conveyor and other devices, whether the installation direction is to the left or right, do not need to change the location of the installation hole.



節約成本 Cost Savings

中空軸減速電動機還簡化了連結零件，從而可減少零件成本和組裝工時。

The hollow shaft reduction motor afso simplifies the connecting parts, thereby reducing the cost of parts and assembling working hours.



適合用于與變頻器組合使用

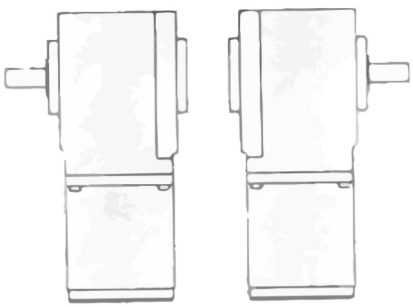
Suitable for use in combination with frequency converter

可實現低速至高速的廣泛速度控制，而且速度受負載影響較小，速度控制更加穩定。

Can achieve low sped to high speed of the extensive speed control. And the speed is less affected by the load, the speed control is more stable.

中空軸減速電動機還簡化了連結零件，從而可減少零件成本和組裝工時。

The hollow shaft reduction motor also simplifies the connecting parts, thereby reducing the cost of parts and assembling working hours.



相關計算 *Calculate Data*

1) 連結系數 (CONNECTION FACTOR)

連結方式 MODE	鏈接系數 FACTOR
鏈輪 SPROCKET	1.00
齒輪 GEAR	1.25
三角皮帶 BELT	1.50
平皮帶 FLAT BELT	2.50

2) 荷重系數 (SERVICE FACTOR)

減速機負載等級 LOAD GRADE	每日運轉時間 (HRS) DAILY OPERATION HOURS			
	1–2	3–8	9–15	16–24
均一負載 UNIFORM LOAD	0.80	0.90	1.20	1.30
中級衝擊負載 MEDIUM IMPACT LOAD	1.00	1.20	1.30	1.50
重級衝擊負載 HEAVY IMPACT LOAD	1.20	1.50	1.75	2.00

3) 符號說明 (CODE)

V=速度 SPEED (M/MIN)	E=效率 EFFICIENCY (%)	1 INCH = 2.54 CM
I= 減速比 RATIO	N2= 減速比 (RPM) OUTPUT SHAFT SPEED	1 FOOT = 12 INCH
T= 輸出扭矩 (KG·M) OUTPUT TORQUE	D= 滾軸直徑 (MM) ROLLER DIAMETER	1 KW = 1000 W　　1 KW = 1.34 HP
K= 連結系數 CONNECTING FACTOR	R= 滾軸半徑 (MM) ROLLER RADIUS	1 KG·M = 7.233 FT·LB　　1 KG·M = 86.8 IN·LB
F= 荷重系數 SERVICE FACTOR	KW1(HP1)= 輸入馬力 INPUT CAPACITY	1 KG = 2.2 LB　　1 LB = 0.4536 KG
W=荷重 (KG) LOAD	KW2(HP2)= 輸出馬力 OUTPUT CAPACITY	N1 = 輸入轉速 (r/min) INPUT SHAFT ROTATION SPEED

4) 基本傳動公式 (BASIC FORMULAR)

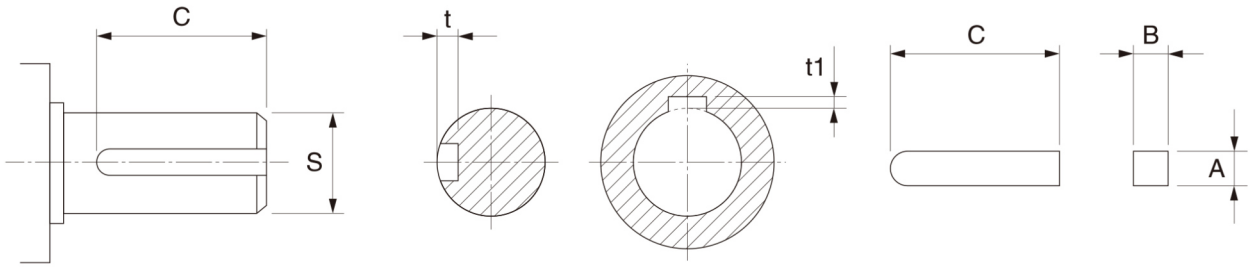
減速比 RATIO	I = N2 / N1
回轉速度 ROTATION SPEED (r/min)	N1 = V / πD
輸出扭矩 OUTPUT TORQUE (KG·M)	T = W × R × K
輸入馬力 INPUT HORSE POWER (公制 METRIC)	KW1 = N × T × 974
公制/英制 INPUT HORSE POWER (英制 INCH)	HP1 = N × T / 716
輸出馬力 OUTPUT HORSE POWER (公制 METRIC)	KW2 = KW1 × F / E
公制/英制 OUTPUT HORSE POWER (英制 INCH)	HP2 = HP1 × F / E

5) 減速機水平輸送場合符合說明及傳動公式 (DESCRIPTION AND TRANSMISSON)

輸送速度 (r/min) TRANSMISSION SPEED	V	減速比 BELT FRICTION COEFFICIENT	μ
滾軸直徑 (MM) ROLLER DIAMETER	D	減速比 (%) CHAIN DRIVE EFFICIENCY	η1
載重量 (KG) LOAD	W	減速比 (%) REDUCER TRANSMISSION EFFICIENCY	η2=0.9
出力軸主動鏈輪齒數 OUTPUT SHAFT TEETH	t1	減速比 CONVEYOR PASSIVE SPROCKET TEETH	t2
輸送帶所需扭矩 (KG·M) BELT TORQUE	T1	減速比 REDUCER RATIO	I
減速機扭矩 (KG·M) REDUCER TORQUE	T2	減速比 (r/min) REDUCER OUTPUT SHAFT ROTATION SPEED	N2
荷重系數 SERVICE FACTOR	F (查表2) F (FIND TABLE 2)		

輸送機回轉速 (r/min) TRANSMISSION SPEED	N1 = V / πD
減速機出力軸回轉速 (r/min) REDUCER OUTPUT SHAFT ROTATION SPEED	N2 = N1 × (t2 / t1)
減速機減速比 (I) REDUCER RATIO	50Hz: I = 1500 / N2 60Hz: I = 1800 / N2
輸送帶所需扭矩 (KG·M) BELT TORQUE	T1 = W × D/2 × μ / η1
減速機所需扭矩 (KG·M) REDUCER TORQUE	T2 = T1 × (t1 / t2) / η2
考慮荷重系數減速馬達扭矩 GEAR MOTOR TORQUE (SERVICE FACTOR BE CONSIDER)	T3 = T2 × F
功率 (HP) CAPACITY	HP = T3 × N2 / 716.2

鍵/鍵槽加工尺寸 *Key/Keyway Dimension*



軸徑 SHAFT DIAMETER	鍵 KEY		鍵槽 KEYWAY			
	新JIS規範 NEW JIS SPEC	舊JIS規範 OLD JIS SPEC	新JIS規範 NEW JIS SPEC (SHAFT / HOLE)		舊JIS規範 OLD JIS SPEC (SHAFT / HOLE)	
S	A×B×C	A×B×C	t	t1	t	t1
Φ11	4×4×C	4×4×C	$2.5^{+0.1}_{+0}$	$1.8^{+0.1}_{+0}$	$2.5^{+0.1}_{+0}$	$2.0^{+0.1}_{+0}$
Φ14	5×5×C	5×5×C	$3.0^{+0.1}_{+0}$	$2.3^{+0.1}_{+0}$	$3.0^{+0.1}_{+0}$	$2.5^{+0.1}_{+0}$
Φ18	6×6×C	6×6×C	$3.5^{+0.1}_{+0}$	$2.8^{+0.1}_{+0}$	$3.5^{+0.1}_{+0}$	$3.0^{+0.1}_{+0}$
Φ19	6×6×C	6×6×C	$3.5^{+0.1}_{+0}$	$2.8^{+0.1}_{+0}$	$3.5^{+0.1}_{+0}$	$3.0^{+0.1}_{+0}$
Φ20	6×6×C	6×6×C	$3.5^{+0.1}_{+0}$	$2.8^{+0.1}_{+0}$	$3.5^{+0.1}_{+0}$	$3.0^{+0.1}_{+0}$
Φ22	8×7×C	7×7×C	$4.0^{+0.2}_{+0}$	$3.3^{+0.2}_{+0}$	$4.0^{+0.2}_{+0}$	$3.5^{+0.2}_{+0}$
Φ24	8×7×C	8×7×C	$4.0^{+0.2}_{+0}$	$3.3^{+0.2}_{+0}$	$4.0^{+0.2}_{+0}$	$3.5^{+0.2}_{+0}$
Φ28	8×7×C	8×7×C	$4.0^{+0.2}_{+0}$	$3.3^{+0.2}_{+0}$	$4.0^{+0.2}_{+0}$	$3.5^{+0.2}_{+0}$
Φ30	8×7×C	8×7×C	$4.0^{+0.2}_{+0}$	$3.3^{+0.2}_{+0}$	$4.0^{+0.2}_{+0}$	$3.5^{+0.2}_{+0}$
Φ32	10×8×C	10×8×C	$5.0^{+0.2}_{+0}$	$3.3^{+0.2}_{+0}$	$4.5^{+0.2}_{+0}$	$4.0^{+0.2}_{+0}$
Φ35	10×8×C	10×8×C	$5.0^{+0.2}_{+0}$	$3.3^{+0.2}_{+0}$	$4.5^{+0.2}_{+0}$	$4.0^{+0.2}_{+0}$
Φ40	12×8×C	12×8×C	$5.0^{+0.2}_{+0}$	$3.3^{+0.2}_{+0}$	$4.5^{+0.2}_{+0}$	$4.0^{+0.2}_{+0}$
Φ45	14×9×C	12×8×C	$5.5^{+0.2}_{+0}$	$3.8^{+0.2}_{+0}$	$4.5^{+0.2}_{+0}$	$4.0^{+0.2}_{+0}$
Φ50	14×9×C	15×10×C	$5.5^{+0.2}_{+0}$	$3.8^{+0.2}_{+0}$	$5.0^{+0.2}_{+0}$	$5.5^{+0.2}_{+0}$
Φ55	16×10×C	15×10×C	$6.0^{+0.2}_{+0}$	$4.3^{+0.2}_{+0}$	$5.0^{+0.2}_{+0}$	$5.5^{+0.2}_{+0}$
Φ60	18×11×C	18×12×C	$7.0^{+0.2}_{+0}$	$4.4^{+0.2}_{+0}$	$6.0^{+0.2}_{+0}$	$6.5^{+0.2}_{+0}$
Φ75	20×12×C	20×13×C	$7.5^{+0.2}_{+0}$	$4.9^{+0.2}_{+0}$	$7.0^{+0.2}_{+0}$	$6.5^{+0.2}_{+0}$
Φ90	25×14×C	24×16×C	$9.0^{+0.2}_{+0}$	$5.4^{+0.2}_{+0}$	$8.0^{+0.2}_{+0}$	$8.5^{+0.2}_{+0}$
C尺寸推薦長度	6, 8, 10, 12, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 45, 50, 56, 63, 70, 80, 90, 100, 110, 125, 140, 160, 180, 200, 220					

各國電壓表 Countries Voltage

阿根廷 Argentina	50	220	220/380	日本 Japan	50/60	100/200	200
澳洲 Australia	50	240	240/415	科威特 Kuwalt	50	100/200	200
奧地利 Austria	50	220	220/380	黎巴嫩 Lebanon	50	110/220	220/380
孟加拉 Bangladesh	50	230	230/400	馬來西亞 Malaysia	50	115/240	240/415 400/440
比利時 Belglum	50	127/220	220/380	荷蘭 Netherlands	50	110/220	220/230
巴西 Brazil	50 60	110/220 127	220/380	紐西蘭 New Zealand	50	230	230/400
緬甸 Burma	50	230	230/440	巴列斯坦 Pakistan	50	230	220/380 230/400
高棉 Cambodia	50	120	220/380	沙島地底阿拉伯 Saudi-arabi	50 60	127/220	220/380 230/400
智利 Chile	50	220	220/380	叙利亞 Syris	50	115/200	220/380
中國 China	50	220	220/380	新加坡 Singapore	50	115/230	230/400
捷克 Czechoslovakia	50	120/220	220/380	南非 South-africa	50	220/230	220/380 230/400
丹麥 Denmark	50	220	220/380	西班牙 Spain	50	127/220	220/380
埃及 Egypt	50	220	220/380	瑞士 Switzerland	50	220	220/380
芬蘭 Finland	50	220	220/380	泰國 Thailand	50	110/220	220/380
法國 France	50	115/127/ 220	220/380	土耳其 Turkey	50	127/220/230	220/380
德國 Germany	50	110/220	220/380	英國 U.K.	50	240	240/416
希臘 Greece	50	220	220/380	越南 Vlet-Num	50	127/220	220/380
香港 Hong Kong	50	110/200/ 230	220/380	加拿大 Canada	60	110/120	220/240/480
匈牙利 Hungary	50	220	220/380	哥倫比亞 Colombia	60	110/220	220/380
冰島 Iceland	50	220	220/380	古巴 Cuba	60	115/120	240
印度 India	50	230	220/380 230/400	厄瓜多爾 Ecuador	60	120/127	208/220
印尼 Indonesia	50	127/200	220/380	韓國 Korea	60	100/200	200
伊拉克 Iraq	50	220	220/380	秘魯 Peru	60	110/220	220
以色列 Israel	50	230	230/400	菲律賓 Philippines	60	110/220	220/440
意大利 Italy	50	127/220	220/380	美國 U.S.A.	60	120/240	240/480

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