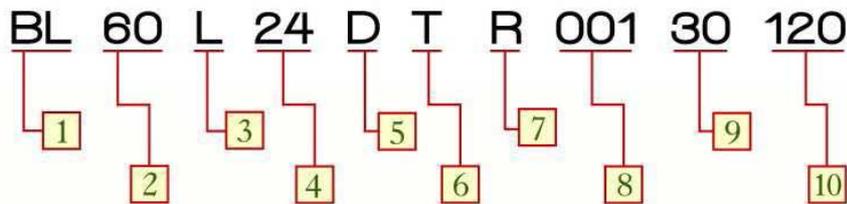




馬達料號說明 PRODUCT CODE



1	Brush Less	
2	框徑 FRAME SIZE	42mm / 60mm / 90mm / 130mm (D0)
3	筒身長度 LENGTH	S:Small / M:Medium / L:Large
4	額定電壓 RATED VOLTAGE	12:12V / 24:24V / B0:110V / M0:220V
5	軸心形式 SHAFT TYPE	D:D軸 (DCUT SHAFT) / R:圓軸 (ROUND SHAFT) / G:輥齒軸 (GEAR SHAFT)
6	馬達極數 POLE	4:4極 / 8:8極 / T:10極
7	特徵碼 CHARACTERISTIC CODE	R:正轉(CW) / L:反轉(CCW) / E:譯碼器(Encoder) / B:電磁煞車(EMB) / A:E譯碼器(Encoder)+B電磁煞車(EMB)
8	特徵碼 II CHARACTERISTIC CODE II	若搭配齒輪箱則前2碼前兩碼會標示速比 RATIO CODE (IF MOTOR WITH GEARBOX)
9	額定轉速 RATED SPEED	30:3000RPM / 40:4000RPM
10	額定功率 RATED POWER	040:40W / 080:80W / 120:120W



馬達之規格與特性曲線

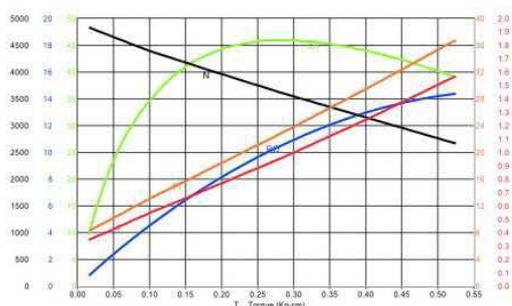
BL42 系列

BL42 series Specification of Motor

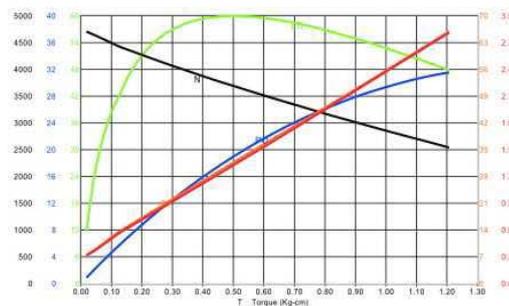
馬達型號 (Motor Model)	 BL42S	 BL42M
額定電壓 (Rated Voltage)	24VDC	24VDC
額定功率 (Rated Power)	15W	30W
額定轉矩 (Rated Torque)	0.5kg-cm	1.0kg-cm
額定電流 (Rated Current)	1.6A	2.0A
額定轉速 (Rated Speed)	3000RPM	
槽極數配合 (Slot-Pole)	4極6槽 (4P6S)	
防護等級 (Degree of Protection)	馬達(Motor) → IP54	

馬達動力曲線圖 Motor Characteristic Curve

BL42S/24VDC



BL42M/24VDC



● 特殊規格及其他需求請洽詢業務人員
Please contact the salesman if customer have other motor request such as motor shaft, speed or voltage.

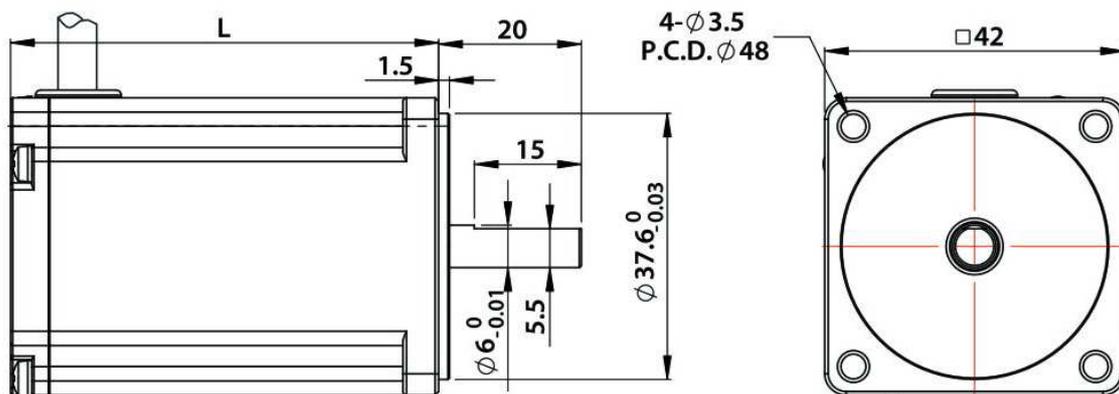
BL42 系列

尺寸圖



BL42 series
Outline Dimension Drawing

馬達(Motor)	
機種(Model)	長度(Length)L
BL42S	45mm
BL42M	60mm



BLDC

● 若有下列需求，請與本司業務人員洽詢：

1.馬達軸心修改:圓軸、輥齒軸 2.馬達轉速 3.輸入電壓修改

Please contact the salesman if customer have other motor request such as motor shaft, speed or voltage.

馬達之規格與特性曲線

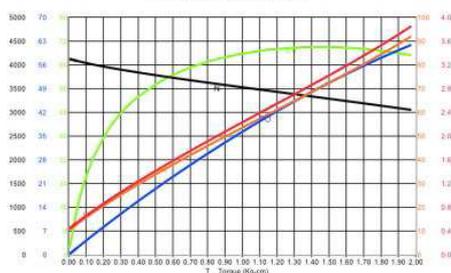
BL60 系列

BL60 series Specification of Motor

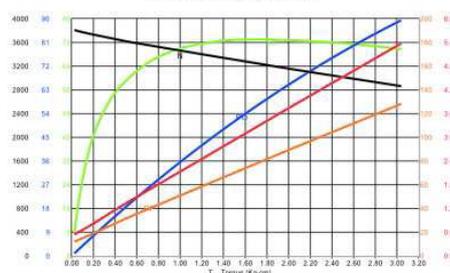
馬達型號 (Motor Model)						
	BL60S		BL60M		BL60L	
額定電壓 (Rated Voltage)	24VDC	1 ϕ 110VAC $\pm 10\%$ / 1 ϕ 220VAC $\pm 10\%$	24VDC	1 ϕ 110VAC $\pm 10\%$ / 1 ϕ 220VAC $\pm 10\%$	24VDC	1 ϕ 110VAC $\pm 10\%$ / 1 ϕ 220VAC $\pm 10\%$
額定功率 (Rated Power)	40W		80W		120W	
額定轉矩 (Rated Torque)	1.3kg-cm		2.6kg-cm		3.9kg-cm	
額定電流 (Rated Current)	2.9A	1.0A/0.65A	5.2A	1.7A/1.2A	8.0A	2.8A/1.8A
額定轉速 (Rated Speed)	3000RPM					
槽極數配合 (Slot-Pole)	8 極 12 槽 (8P12S)					
防護等級 (Degree of Protection)	馬達(Motor) \rightarrow IP54					

馬達動力曲線圖 Motor Characteristic Curve

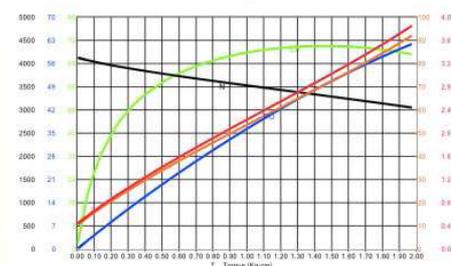
BL60S/24V



BL60M/24V



BL60L/24V



- 特殊規格及其他需求請洽詢業務人員
Please contact the salesman if customer have other motor request such as motor shaft, speed or voltage.

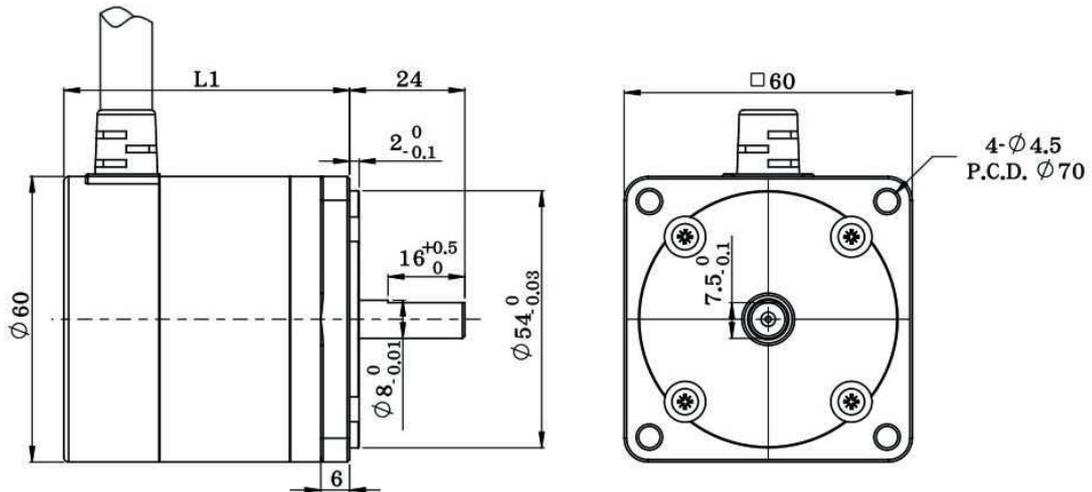
BL60 系列

尺寸圖



BL60 series
Outline Dimension Drawing

馬達(Motor)	
機種(Model)	長度(Length)L1
BL60S	59.5mm
BL60M	84.5mm
BL60L	109.5mm



● 若有下列需求，請與本司業務人員洽詢:

- 1.馬達軸心修改:圓軸、蝸齒軸
- 2.馬達轉速
- 3.輸入電壓修改

Please contact the salesman if customer have other motor request such as motor shaft, speed or voltage.



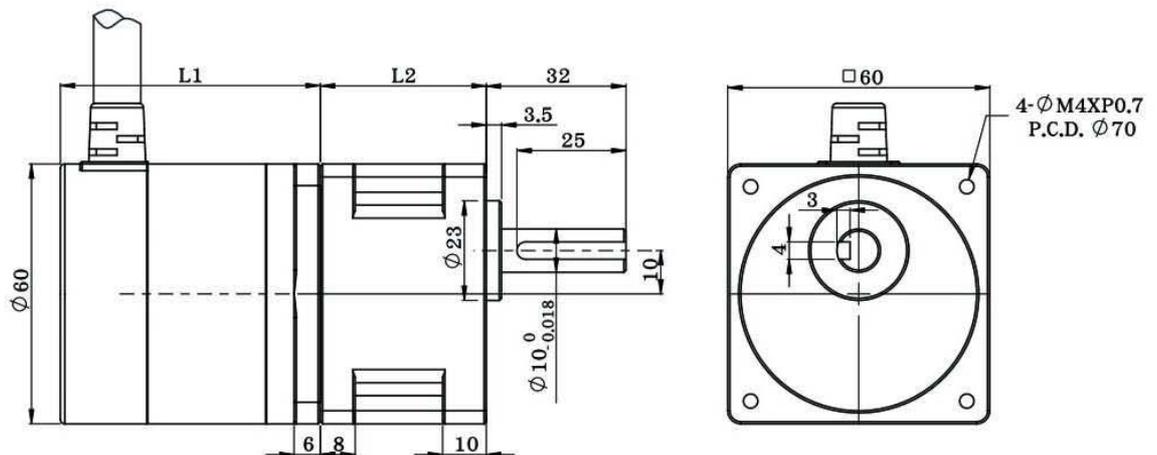
馬達減速機規格尺寸表

BL60 系列

BL60 series
Gearmotor

馬達(Motor)	
機種(Model)	長度(Length)L1
BL60S	59.5mm
BL60M	84.5mm

減速機(Gearbox)-2GB23	
減速比(Gear Ratio)	長度(Length)L2
5:1/10:1/15:1	38mm
20:1/30:1/50:1	45.5mm
100:1	52.5mm



Specification of Gearbox

BL60系列專用齒輪箱2GB23M							
減速比(Gear Ratio)	1:5	1:10	1:15	1:20	1:30	1:50	1:100
容許轉矩 N·m(kg·cm) (Permissible Torque)	3(30)		4.5(45)			6(60)	
容許推力載重 N(kg) (Permissible Thrust Load)	50(5)						
容許懸吊載重 N(kg) (Permissible Overhung Load)	100(10)						

BL90 系列

馬達之規格與特性曲線

BL90 series Specification of Motor

馬達型號 (Motor Model)					
	BL90X	BL90S	BL90N		
額定電壓(Rated Voltage)	24VDC	1 ϕ 110VAC \pm 10% / 1 ϕ 220VAC \pm 10%	24VDC	1 ϕ 110VAC \pm 10% / 1 ϕ 220VAC \pm 10%	1 ϕ 220VAC \pm 10%
額定功率(Rated Power)	75W		150W		200W
額定轉矩(Rated Torque)	2.4kg-cm		5.6kg-cm		6.4kg-cm
額定電流(Rated Current)	3.6A	2.1A/1.1A	8A	3.7A/1.9A	2.6A
槽極數配合(Slot-Pole)	8極12槽(8P12S)				
額定轉速(Rated Speed)	3000RPM				
防護等級(Degree of Protection)	馬達 (Motor) \rightarrow IP54				

馬達型號 (Motor Model)			BL104 系列 陸續開發中， 請洽詢業務人員
	BL90M	BL90L	
額定電壓(Rated Voltage)	1 ϕ 220VAC \pm 10%	1 ϕ 220VAC \pm 10%	
額定功率(Rated Power)	350W	500W	
額定轉矩(Rated Torque)	11.2kg-cm	16kg-cm	
額定電流(Rated Current)	3.5A	5.2A	
槽極數配合(Slot-Pole)	8極12槽(8P12S)		
額定轉速(Rated Speed)	3000RPM		
防護等級(Degree of Protection)	馬達 (Motor) \rightarrow IP54		

BLDC BLDC BLDC

● 特殊規格及其他需求請洽詢業務人員

Please contact the salesman if customer have other motor request such as motor shaft, speed or voltage.

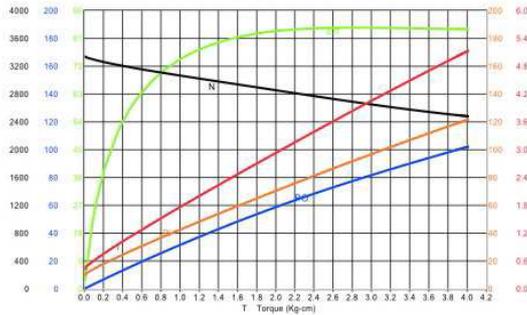


馬達動力曲線圖

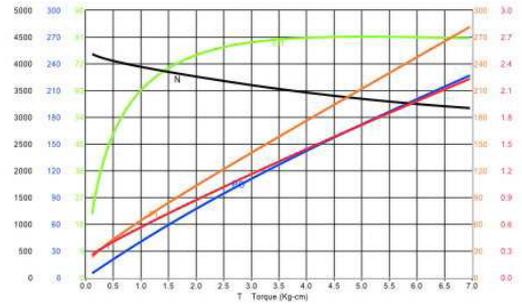
BL90 系列

BL90 series Motor Characteristic Curve

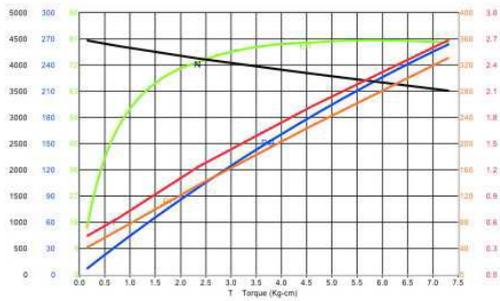
BL90X/24VDC



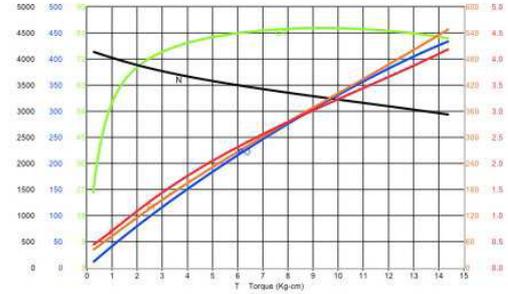
BL90S/220VAC



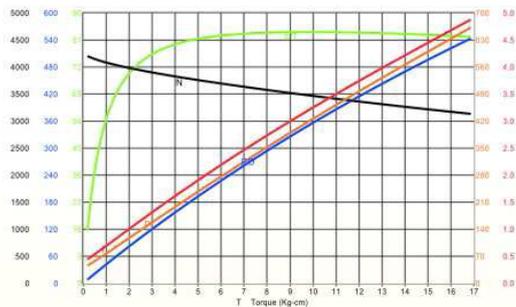
BL90N/220VAC



BL90M/220VAC



BL90L/220VAC



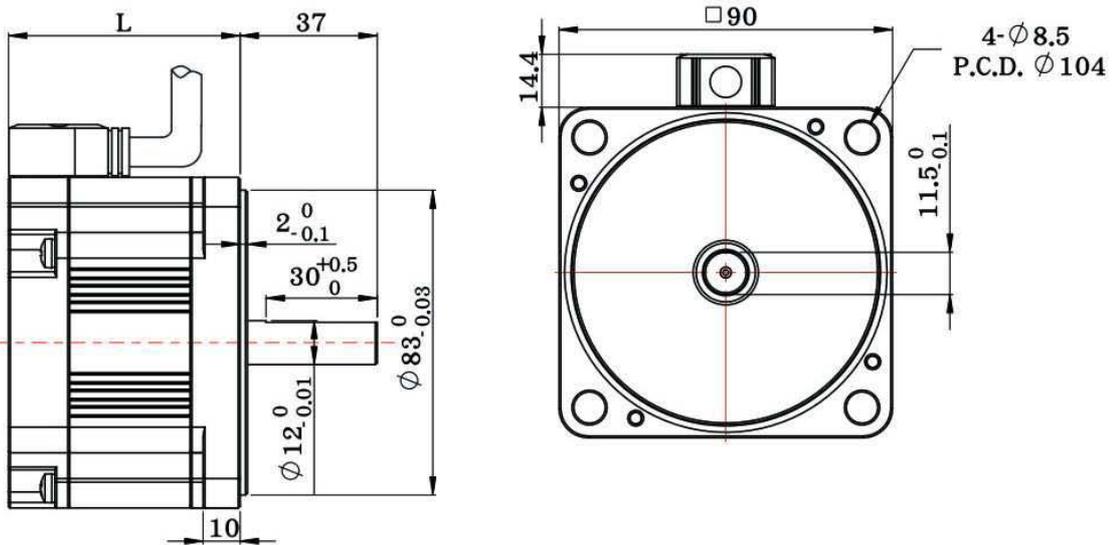
BL90 系列

尺寸圖



BL90 series
Outline Dimension Drawing

馬達(Motor)	
機種(Model)	長度(Length)L
BL90X	52.5mm
BL90S	62.5mm
BL90N	72.5mm
BL90M	87.5mm
BL90L	112.5mm



BLDC

- 若有下列需求，請與本司業務人員洽詢：
1.馬達軸心修改:圓軸、蝸齒軸 2.馬達轉速 3.輸入電壓修改
- Please contact the salesman if customer have other motor request such as motor shaft, speed or voltage.



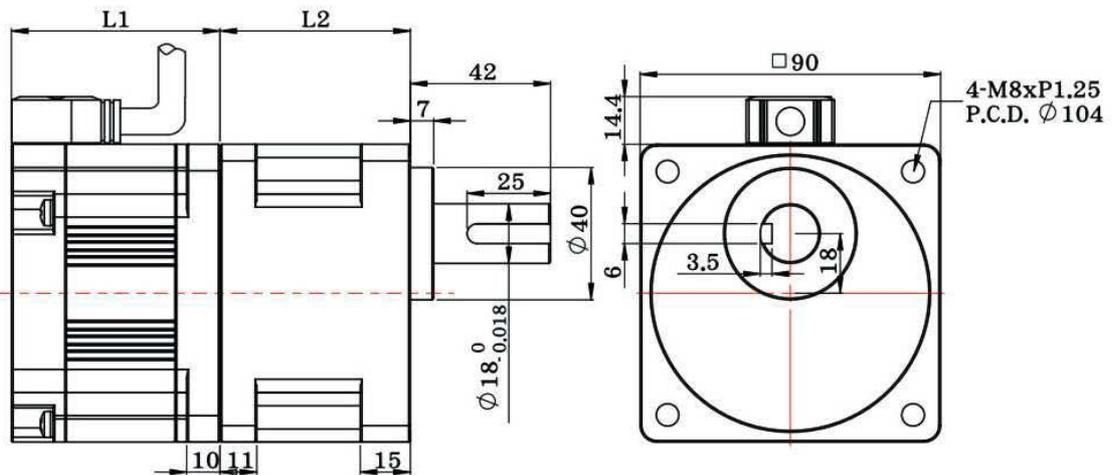
馬達減速機規格尺寸表

BL90 系列

BL90 series
Gearmotor

馬達(Motor)	
機種(Model)	長度(Length)L1
BL90S	62.5mm
BL90M	87.5mm

減速機(Gearbox)-5GB34	
減速比(Gear Ratio)	長度(Length)L2
5:1/10:1/15:1	57mm
20:1/30:1/50:1	69.5mm
100:1	80mm



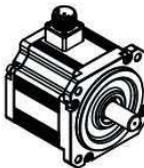
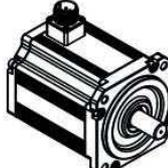
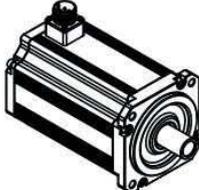
Specification of Gearbox

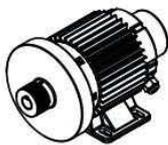
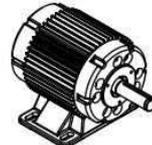
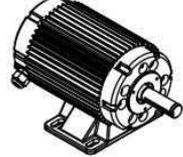
BL90 系列專用齒輪箱 5GB34M							
減速比(Gear Ratio)	1:5	1:10	1:15	1:20	1:30	1:50	1:100
容許轉矩N-m(kg-cm) (Permissible Torque)	15(150)		20(200)			35(350)	
容許推力載重N(kg) (Permissible Thrust Load)	100(10)						
容許懸吊載重N(kg) (Permissible Overhung Load)	300(30)						

BL130 系列

馬達之規格與特性曲線

BL130 series Specification of Motor

馬達型號 (Motor Model)	 BLD0M	 BLD0L	 BLD0H
額定電壓(Rated Voltage)	1 ϕ 220VAC \pm 10%	1 ϕ 220VAC \pm 10%	1 ϕ 220VAC \pm 10%
額定功率(Rated Power)	1000W	2000W	3000W
額定轉矩(Rated Torque)	32kg-cm	64kg-cm	96kg-cm
額定電流(Rated Current)	T.B.D	T.B.D	T.B.D
槽極數配合(Slot-Pole)	8極12槽(8P12S) or 8極18槽(8P18S)		
額定轉速(Rated Speed)	3000RPM		
防護等級(Degree of Protection)	馬達(Motor) \rightarrow IP54		

馬達型號 (Motor Model)	 BLD0L(散熱鱗片圓框)	 BLD0L(散熱鱗片圓框)	 BLD0L(散熱鱗片圓框)
額定電壓(Rated Voltage)	1 ϕ 220VAC \pm 10%	1 ϕ 220VAC \pm 10%	1 ϕ 220VAC \pm 10%
額定功率(Rated Power)	2000W	2000W	3000W
額定轉矩(Rated Torque)	64kg-cm	64kg-cm	96kg-cm
額定電流(Rated Current)	T.B.D	T.B.D	T.B.D
槽極數配合(Slot-Pole)	8極12槽(8P12S) or 8極18槽(8P18S)		
額定轉速(Rated Speed)	3000RPM		
防護等級(Degree of Protection)	馬達(Motor) \rightarrow IP54		

BLDC

● 特殊規格及其他需求請洽詢業務人員

Please contact the salesman if customer have other motor request such as motor shaft, speed or voltage.

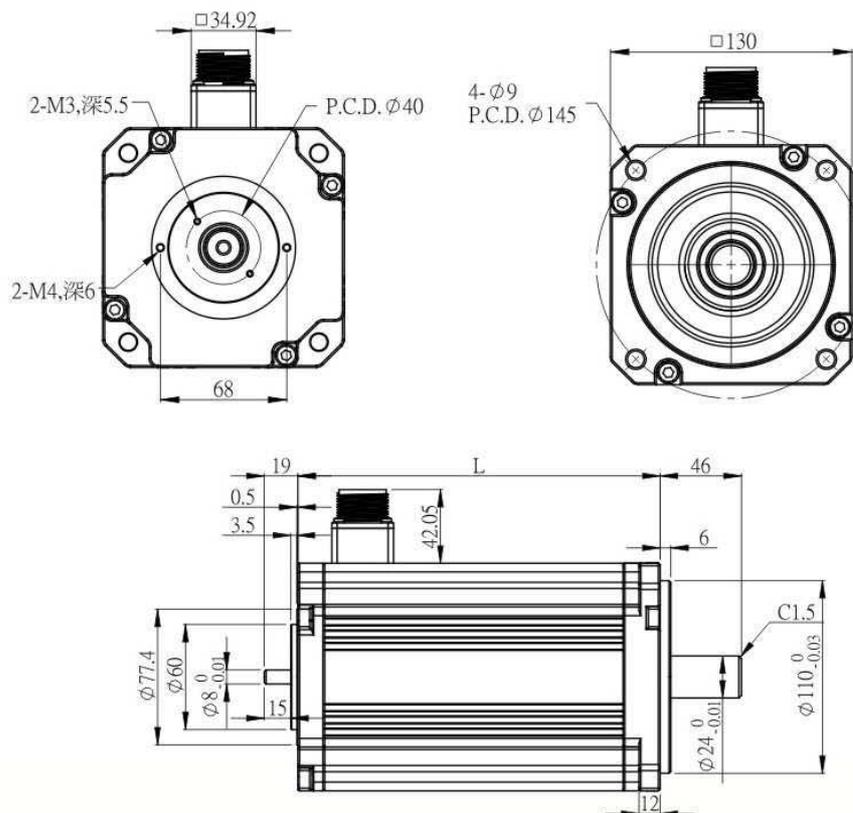


尺寸圖

BL130 系列

BL130 series
Outline Dimension Drawing
(Standard frame type)

馬達(Motor)	
機種(Model)	長度(Length)L
BL130M	112.7mm
BL130L	155.2mm
BL130H	205.2mm



● 若有下列需求，請與本司業務人員洽詢：

1.馬達軸心修改:圓軸、輓齒軸 2.馬達轉速 3.輸入電壓修改

Please contact the salesman if customer have other motor request such as motor shaft, speed or voltage.

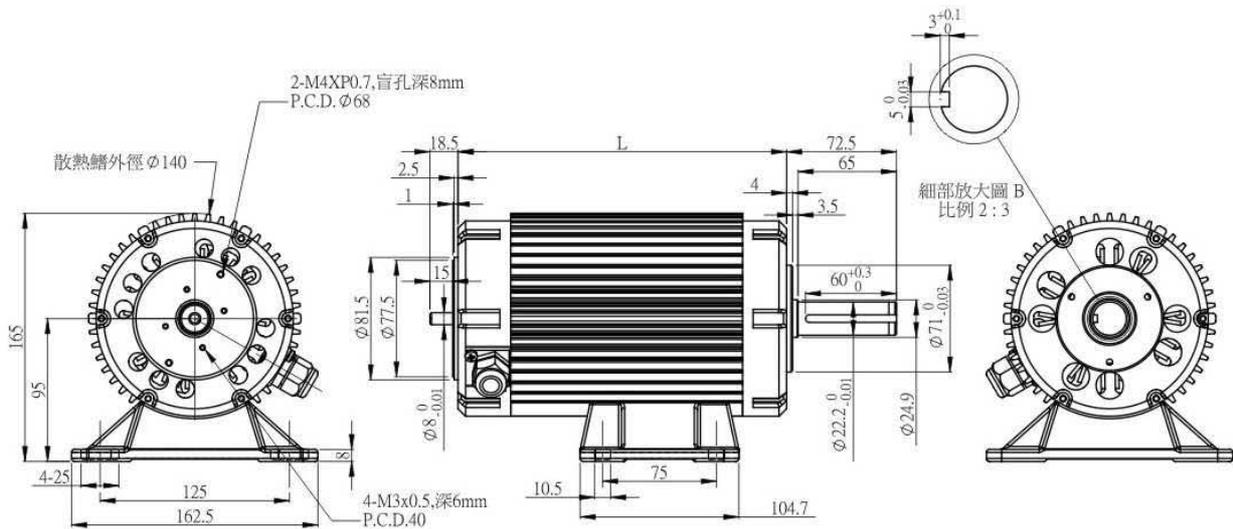
BL130 系列

尺寸表 (圓框機型)



BL130 series
Outline Dimension Drawing
(Cylinder frame type)

馬達 (Motor)	
機種 (Model)	長度 (Length)L
BL130L	166.7mm
BL130H	216.7mm



BLDC

● 若有下列需求，請與本司業務人員洽詢:

1.馬達軸心修改:圓軸、輥齒軸 2.馬達轉速 3.輸入電壓修改

Please contact the salesman if customer have other motor request such as motor shaft, speed or voltage.



————— 延長線
Cable with Connector

Cable Length options : 1M,2M,5M

零件 Parts



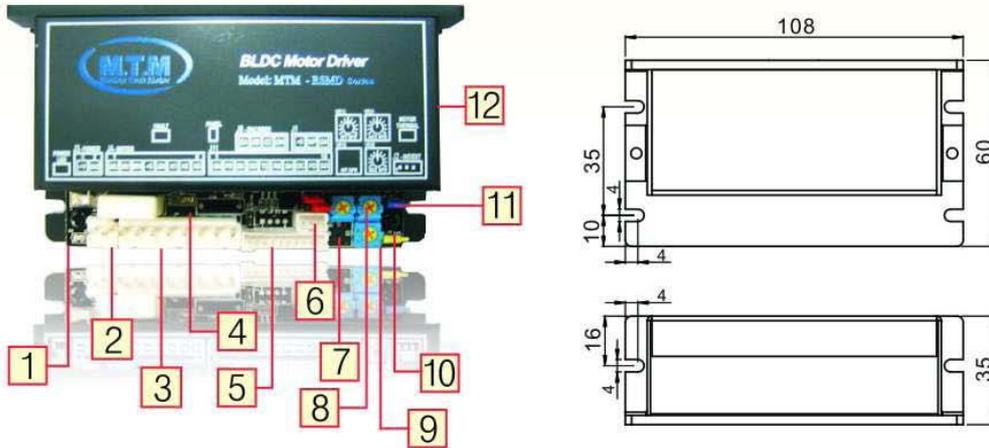
顯示面板
—————
Display Panel



調速按鈕
————— Knob

DC 驅動器功能

The Function of DC Driver

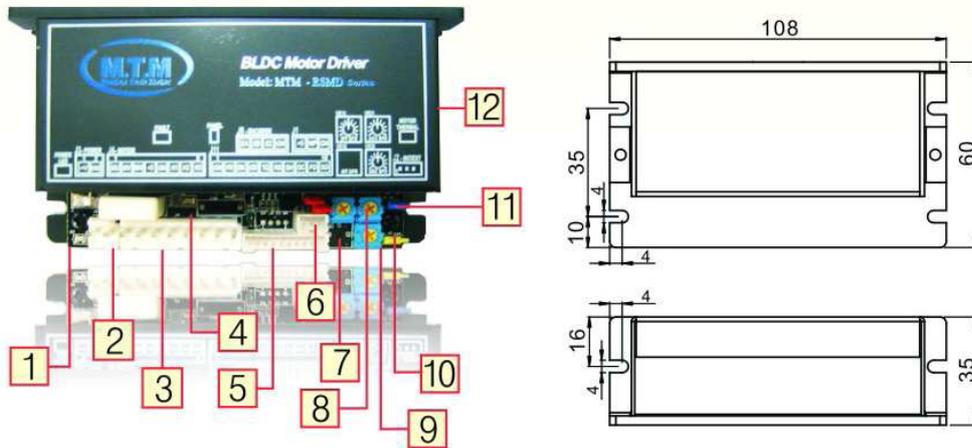


編號	功能名稱	功能
1	電源指示燈	輸入電源,指示燈會亮
2	DC電源入力	電源電壓輸入接點(24VDC)
3	馬達連接器	馬達與驅動器的連接
4	異常指示燈	過負荷、過壓/低壓、過熱、欠相等保護作動時；或馬達輸出致能關閉(自由停止),異常指示燈會亮
5	輸入輸出信號	<input type="checkbox"/> 正/反轉 <input type="checkbox"/> 煞車運轉 <input type="checkbox"/> 輸出致能關閉(自由停止) <input type="checkbox"/> 復歸 <input type="checkbox"/> 警告輸出 <input type="checkbox"/> 轉速輸出
6	外部調速	0~4000rpm (可變電阻20kΩ, B Type 或直流電壓0~5V)
7	內部調速	200~4000rpm
8	加速時間	0.5~15秒
9	減速時間	0.5~15秒
10	速度設定選擇	內部/外部速度設定選擇
11	馬達溫度開關	馬達過熱保護
12	面板通訊接點	與面板(選配)做通訊連接

速度變動率	對負載	±1% 額定轉速(0~額定轉矩)
	對電壓	±1% 額定轉速(於無載下,輸入電壓 ±10%)
	對溫度	±1% 額定轉速(於無載下,溫度 0°C-50°C[32°F-122°F])
速度控制範圍		200~4000rpm
速度控制方式		<input type="checkbox"/> 內部可變電組調速 <input type="checkbox"/> 外部可變電組調速 <input type="checkbox"/> 外部電壓調速
保護功能		<input type="checkbox"/> 過電壓/低電壓輸出關閉保護 <input type="checkbox"/> 過負載保護 <input type="checkbox"/> 欠相保護 <input type="checkbox"/> 馬達過熱保護 <input type="checkbox"/> 驅動器過熱保護(出廠預設溫度為70°C)
其他功能(需加購面板)		<input type="checkbox"/> 驅動器電壓監控 <input type="checkbox"/> 驅動器即時溫度監控 <input type="checkbox"/> 馬達轉速監控
保護等級		IP00

The Function of DC Driver

DC 驅動器功能



No.	Display	Function
1	Power LED	Power Input Indication
2	DC Power Connection Terminal	DC Power Supply Input(24VDC)
3	Motor Connector	Connect with motor
4	Alarm LED	Alarm Output Indication (Overload · Overvoltage · Low Voltage · Overheat · Out of phase) or Output Disable (Free Stop)
5	Input/ Output Signal	<ul style="list-style-type: none"> ■ CW/CCW ■ Brake/Run ■ Output Disable (Free Stop) ■ Reset ■ Alarm output ■ Speed output
6	External Potentiometer	0 - 4000rpm (VR 20kΩ, B Type or DC Voltage 0-5V)
7	Internal Potentiometer	200 - 4000rpm
8	Deceleration Time Potentiometer	0.5-15 sec.
9	Acceleration Time Potentiometer	0.5-15 sec.
10	Speed Setting	Choice of Internal/External Potentiometer
11	Motor Temp. Switch	Connect with motor temp sensor
12	Panel Communication Connector	Communication with panel(Optional)

speed regulation	(vs Temp)	(±1% Rated Speed at 0-rated torque)
	(vs Load)	(±1% Rated Speed at ±10% Voltage , wth no load)
	(vs Voltage)	(1% Rated Speed at 0°C-50°C[32°F-122°F] , with no load)
Speed Control Range		200-4000RPM
Speed Control Method		<ul style="list-style-type: none"> ■ (control by the internal potentiometer) ■ (control by the external potentiometer : 20k , B type) ■ (control by external DC voltage : 0-5V)
Protection Functions		<ul style="list-style-type: none"> ■ (Over-Voltage/Low-Voltage Protection) ■ (Overload Protection) ■ (Out of Phase Protection) ■ (Over-Heat Protection of Motor) ■ (Over-Heat Protection of Driver , Defaul Temp. is 70°C)
Other Functions / with Panel (Accessory)		<ul style="list-style-type: none"> ■ Driver Voltage Monitor ■ Driver Temp. Monitor ■ Motor Speed Monitor
Degree of Protection		IP00