

LIMON
PRECISION & SPEED

LINEAR PRECISION

LINEAR SPEED

萊盟機器人有限公司成立於2002年，總部位於中國臺灣，為全球客戶定制自動化產品並提供專業的解決方案。主營產品線性模組、中空旋轉平臺和線性馬達已廣泛應用於液晶面板行業、電子行業、光伏行業等各大工業領域。

自成立以來，LIMON不斷專注、創新於工業機器人及自動化相關行業。目前LIMON在國內多個城市已設立駐點辦事處，快速回應客戶需求；業務遍佈全球30多個國家和地區，與各大國際知名品牌競爭；每年參加10次以上大型全球展會，時刻把握行業最新動態；為客戶提供超過1400個解決方案，用心追求專業定制化服務。

LIMON以高效務實的態度，為客戶提供合適的方案、高品質的產品及專業快捷的服務，只為實現與客戶的共贏；以推動中國工業產業升級為使命，助力中國智能製造，致力於成為智能裝備企業最信賴的合作夥伴。

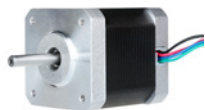
LIMON AUTO TECH CO., LTD Founded in 2002, headquarters located in Taiwan, has been providing professional solutions and customized automation products for global customers. Our company mainly focus on linear module, linear motor, hollow rotating actuator and other related products of linear motion system, all of which have been widely used in major industrial fields like LCD panel industry, electronic industry, photovoltaic industry.

Ever since our establishment, we have been concentrating and innovating in the automation related industries. At present, we have founded our service points in many cities all over China, which makes us have the ability to respond to customers' requirements quickly; our business has covered more than 30 countries/regions around the world and competes with major international famous brands; each year, we participates in more than 10 large-scale global exhibitions to keep abreast of the latest trends of the industry, provides more than 1400 solutions for customers and pursues professional customized services.

LIMON as a high-tech manufacturer with an efficient and pragmatic attitude, keeping providing customers with appropriate solutions, high-quality products, professional and fast services, trying to achieve the win-win business with our partner. With the mission of promoting Chinese industrial upgrading, we contribute to Chinese intelligent manufacturing and committed to becoming the most trusted partner of intelligent equipment enterprises.

產品目錄 / Products Catalogue

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SM86 系列混合步進電機 / SM86 Series Hybrid Stepper Motor



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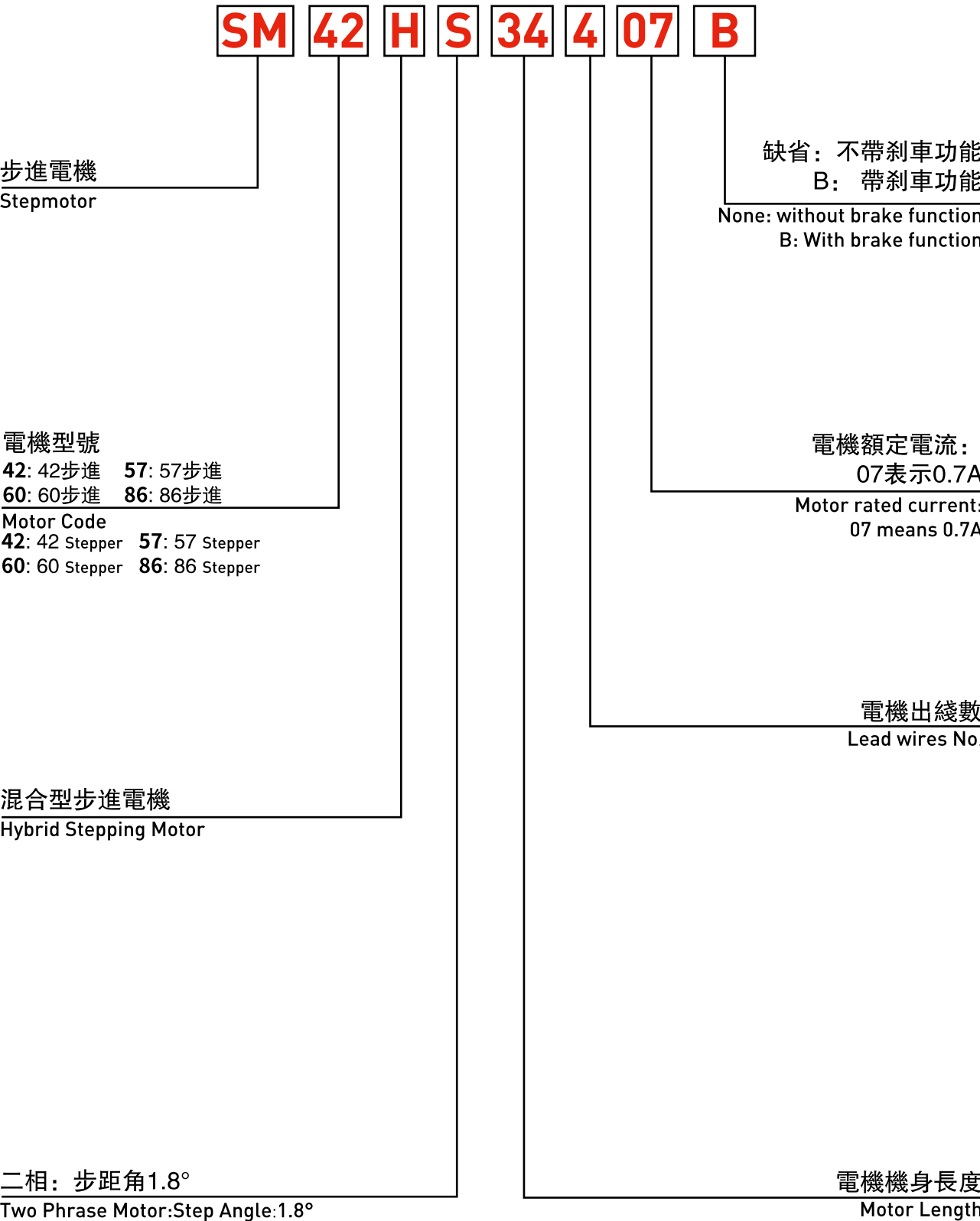
ES57系列滾珠螺母外驅式綫性步進電機/
ES57 series ball nut external drive linear stepping motor

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混合型步進電機
Hybrid Stepper Motor

型號說明

Model description

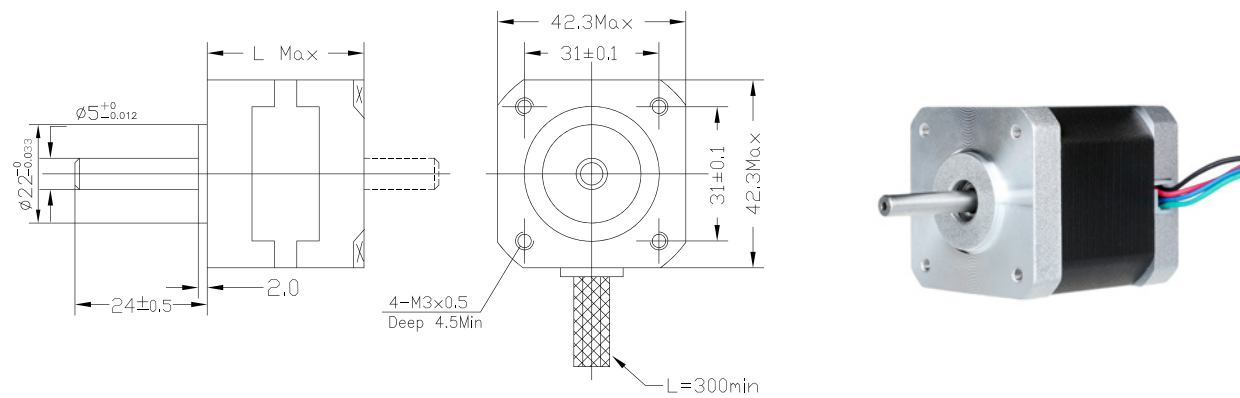


SM42 series 混合型步進電機 Hybrid Stepper Motor

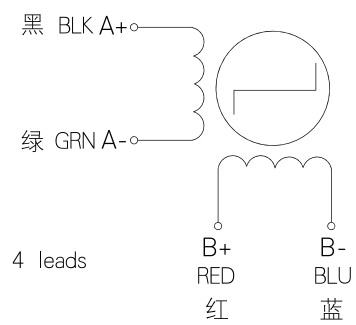
技術數據 Electrical Specifications

電機型號 Model	步距角 Step Angle(°)	機身長 Motor Length L(mm)	相電壓 Rated Voltage(V)	相電流 Rated Current(A)	相電阻 Phase Resistance(Ω)	相電感 Phase Inductance(mH)	靜力矩 Holding Torque(N·m)	引綫數 Lead Wires(No.)	轉動慣量 Rotor Inertia(g·cm²)	定位力矩 Detent Torque(N·m)	重量 Motor Weight(kg)
SM42HS34406	1.8	34	12	0.6	20	15	0.2	4	35	0.016	0.25
SM42HS40417	1.8	40	3.4	1.7	2	2.8	0.4	4	54	0.022	0.3
SM42HS48412	1.8	48	3.84	1.2	3.2	5	0.48	4	68	0.026	0.38

外型圖 Figure Dimensions



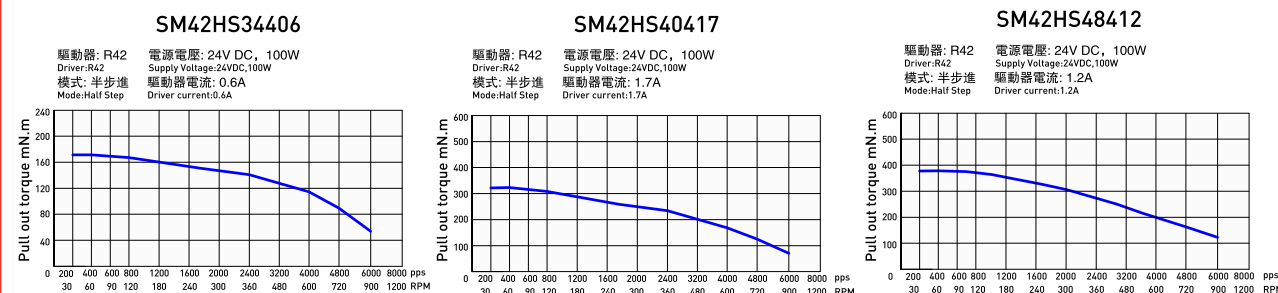
接綫圖 Wiring Diagram



勵磁相序 Excitation sequence

STEP	A+	B+	A-	B-
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+

矩頻曲綫 Pull Out Torque Curve



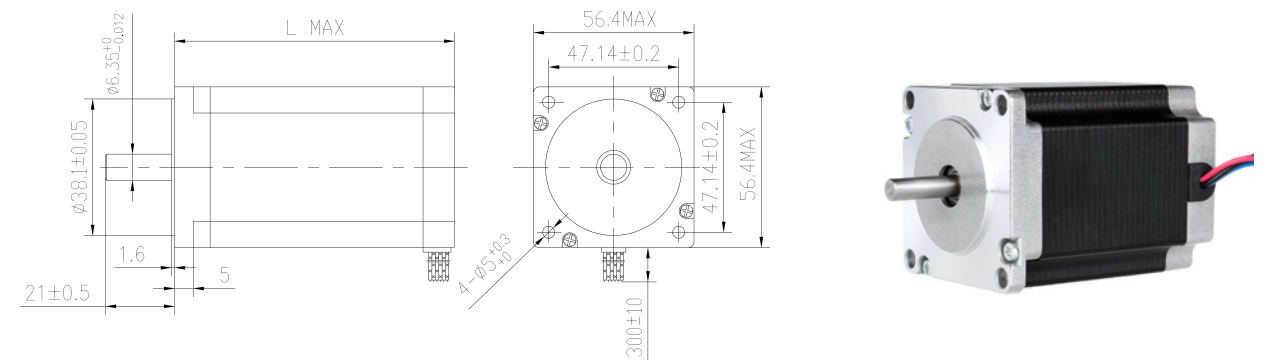
注：该曲线仅在实验室理想条件下测量，仅供选择参考。
Note: This curve is only measured under ideal conditions in the laboratory and is only for selection reference.

混合型步進電機 **SM57 series**
Hybrid Stepper Motor

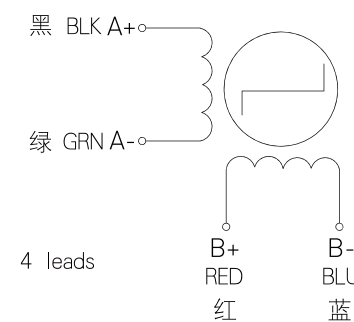
技術數據 Electrical Specifications

電機型號 Model	步距角 Step Angle(°)	機身長 Motor Length L(mm)	相電壓 Rated Voltage(V)	相電流 Rated Current(A)	相電阻 Phase Resistance(Ω)	相電感 Phase Inductance(mH)	靜力矩 Holding Torque(N.m)	引綫數 Lead Wires(No.)	轉動慣量 Rotor Inertia(g.cm ²)	定力力矩 Detent Torque(N.m)	重量 Motor Weight(kg)
SM57HS41415	1.8	41	2.85	1.5	1.9	5.5	0.55	4	150	0.025	0.45
SM57HS51420	1.8	51	2.6	2.0	1.3	4	0.9	4	275	0.036	0.65
SM57HS56440	1.8	56	2.0	4.0	0.5	1.8	1.25	4	280	0.035	0.7
SM57HS76440	1.8	76	2.4	4.0	0.6	2.2	1.9	4	480	0.06	1
SM57HS112442	1.8	112	3.78	4.2	0.9	3.8	3	4	800	0.089	1.7

外型圖 Figure Dimensions



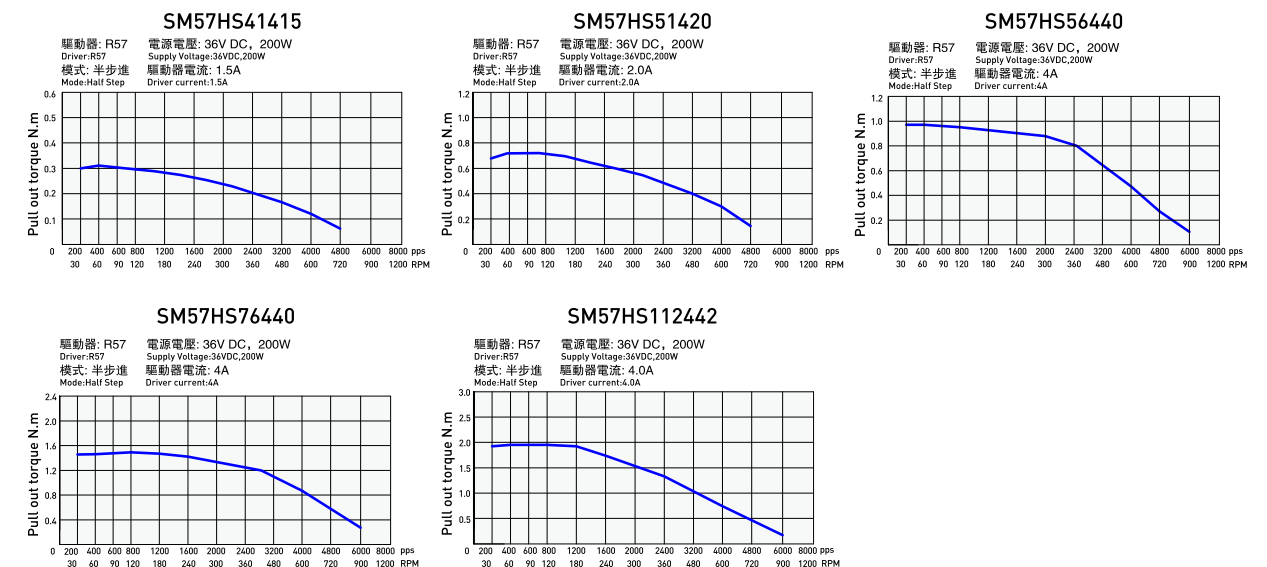
接綫圖 Wiring Diagram



勵磁相序 Excitation sequence

STEP	A+	B+	A-	B-
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+

矩頻曲綫 Pull Out Torque Curve

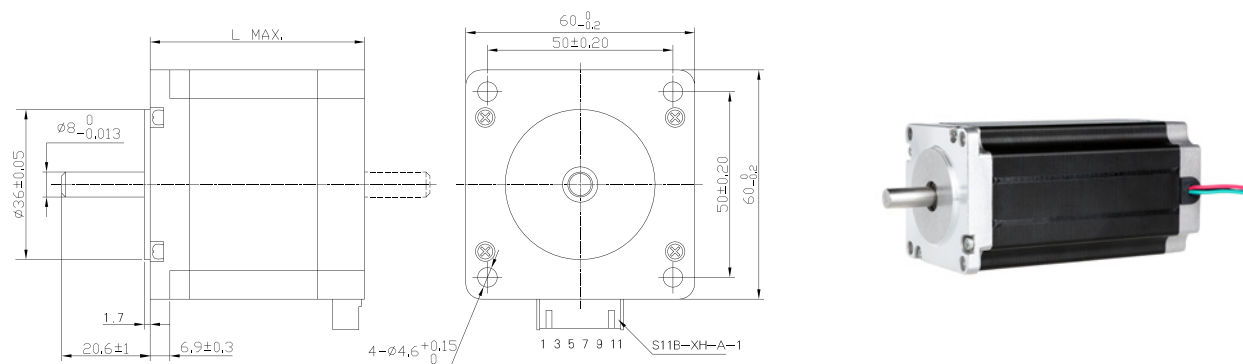


注：该曲线仅在实验室理想条件下测量，仅供选择参考。
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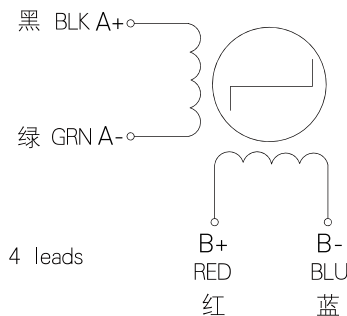
技術數據 Electrical Specifications

電機型號 Model	步距角 Step Angle(°)	機身長度 Motor Length L(mm)	相電壓 Rated Voltage(V)	相電流 Rated Current(A)	相電阻 Phase Resistance(Ω)	相電感 Phase Inductance(mH)	靜力矩 Holding Torque(N·m)	引綫數 Lead Wires(No.)	轉動慣量 Rotor Inertia(g·cm²)	定位力矩 Detent Torque(N·m)	重量 Motor Weight(kg)
SM60HS68440	1.8	68	2.8	4	0.7	2.3	2.2	4	490	0.52	1
SM60HS85440	1.8	85	2.8	4	0.7	3.5	2.3	4	840	0.11	1.4
SM60HS112465	1.8	112	3.25	6.5	0.5	2.5	4.0	4	1100	0.18	2

外型圖 Figure Dimensions



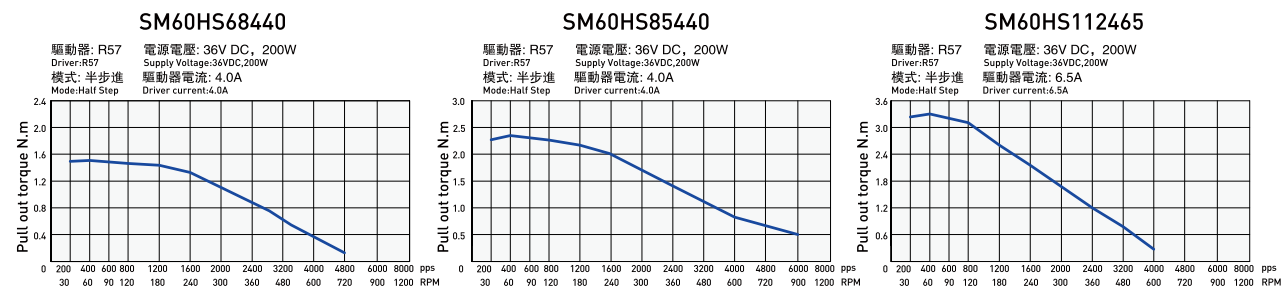
接綫圖 Wiring Diagram



勵磁相序 Excitation sequence

STEP	A+	B+	A-	B-
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+

矩頻曲綫 Pull Out Torque Curve

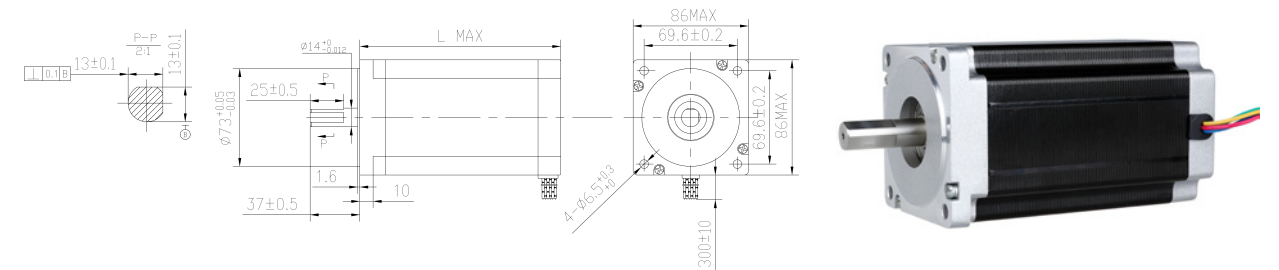


注：该曲线仅在实验室理想条件下测量，仅供选择参考。
Note: This curve is only measured under ideal conditions in the laboratory and is only for selection reference.

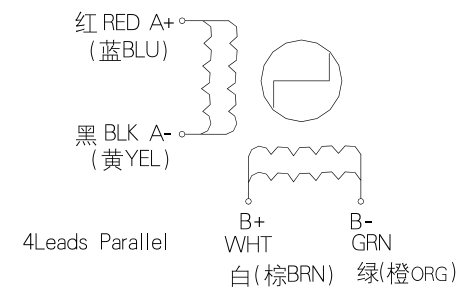
技術數據 Electrical Specifications

電機型號 Model	步距角 Step Angle(°)	機身長 Motor Length(Lmm)	相電壓 Rated Voltage(V)	相電流 Rated Current(A)	相電阻 Phase Resistance(Ω)	相電感 Phase Inductance(mH)	靜力矩 Holding Torque(N·m)	引綫數 Lead Wires(No.)	轉動慣量 Rotor Inertia(g·cm²)	定位力矩 Detent Torque(N·m)	重量 Motor Weight(kg)
SM86HS66440	1.8	66	1.68	4.0	0.42	2.3	3.2	4	1000	0.055	3
SM86HS100456	1.8	100	2.13	5.6	0.38	4.1	7.7	4	1700	0.095	3.5
SM86HS126460	1.8	126	2.58	6.0	0.43	5.5	10.5	4	2900	0.125	3.8
SM86HS151460	1.8	151	3.6	6	0.6	8	12	4	4000	0.245	5.5

外型圖 Figure Dimensions



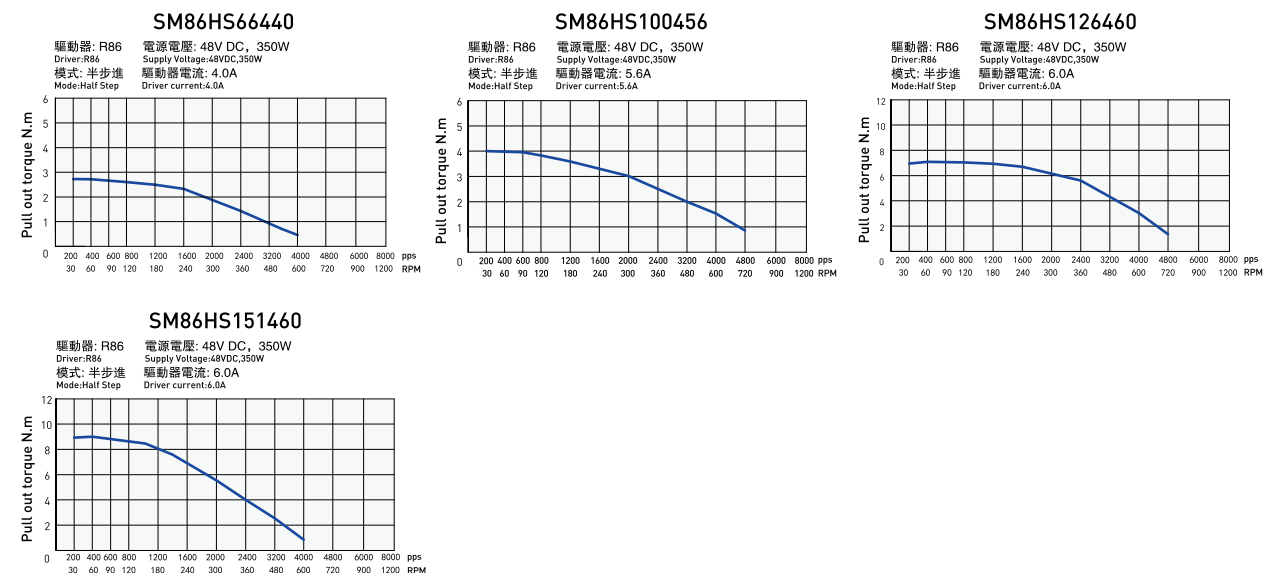
接綫圖 Wiring Diagram



勵磁相序 Excitation sequence

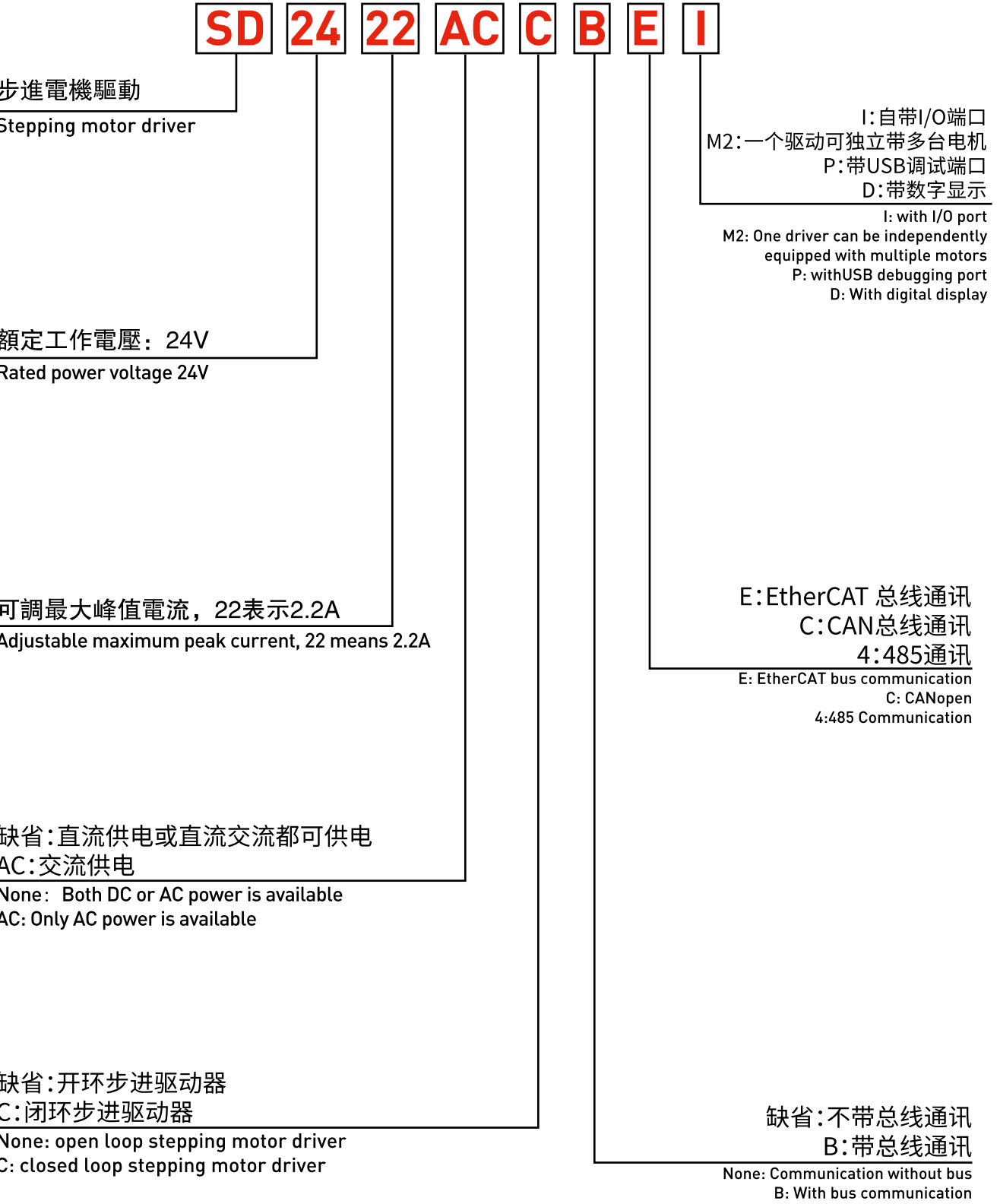
STEP	A+	B+	A-	B-
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+

矩頻曲綫 Pull Out Torque Curve



型號說明

Model description



SD系列脉衝控制型步進電機驅動器

SD series pulse controlled stepping motor driver

- 匹配電機機座在20–130 Matching motor base at 20-130
- 全數字微細分技術 All digital micro separation technology
- 脉衝兼容5–24V Pulse compatible 5-24v
- 指令平滑和低速抗共振 Command smoothing and low speed anti resonance
- 適配電機參數自適應 Adaptive motor parameter adaptation
- 優化抗幹擾能力 Optimize anti-interference capability
- 更好的硬件設計和穩定性 Better hardware design and stability

步進系統相關概念 Related concepts of stepping system

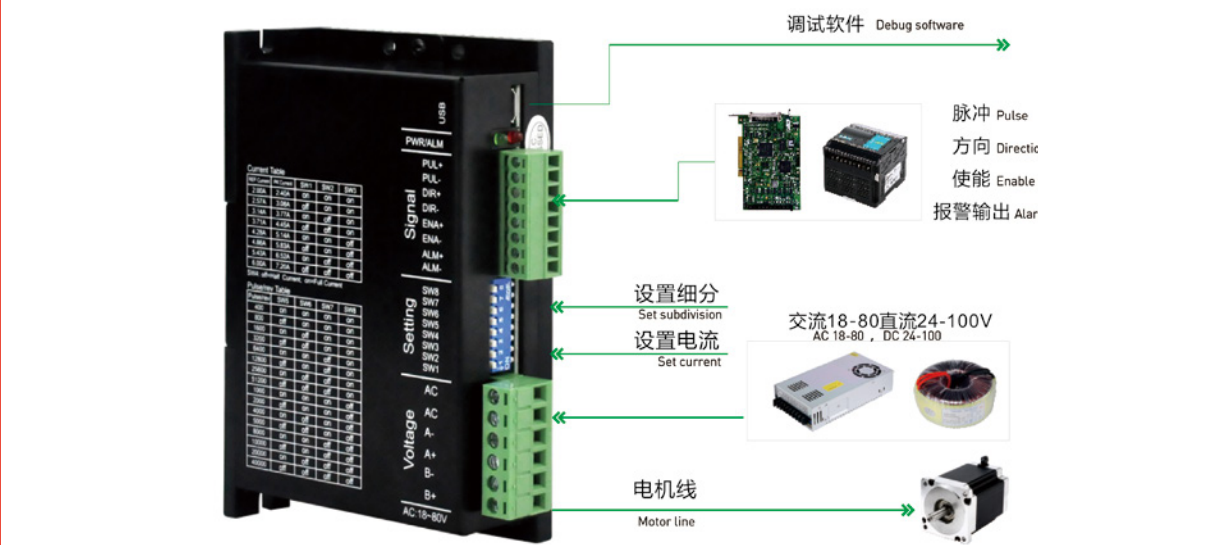
電流:峰值電流是指驅動器輸出正弦波的最大值，有效值為平均電流
Electric Current:Peak current refers to the maximum output sine wave of the driver, and the effective value is the average current

細分:驅動器將整步細分成多步，角度變小、振動小，衍生為每轉脉衝數
To Subdivide:The driver subdivides the whole step into multiple steps, the angle becomes smaller and the vibration is smaller, which is derived into the number of pulses per revolution

電機接線:同一相繞組順序反接，電機反向(五相不能反接)
Motor wiring:
The winding sequence of the same phase is reversed, and the motor is reversed (five phases cannot be reversed)

半流全流:半流為電機停止時將電流減半，可以減小發熱
Half current and full current:Half current is to halve the current when the motor stops, which can reduce the heating

步進驅動器功能說明 Step driver function description



工作電流設定 Operating current setting					微步細分設定 Microstep subdivision settings				
輸出電流峰值 Output current peak	輸出電流有效值 Effective value of output current	SW1	SW2	SW3	步數/轉 Steps / revolution	SW5	SW6	SW7	SW8
2.40A	2.00 A	on	on	on	400	on	on	on	on
3.08A	2.57 A	off	on	on	800	off	on	on	on
3.77A	3.14 A	on	off	on	1600	on	off	on	on
4.45A	3.71 A	off	off	on	3200	off	off	on	on
5.14A	4.28 A	on	on	off	6400	on	on	off	on
5.83A	4.86 A	off	on	off	12800	off	on	off	on
6.52A	5.43 A	on	off	off	25600	on	off	off	on
7.20A	6.00 A	off	off	off	51200	off	off	off	on
半全流選擇 Half / full current selection					1000	on	on	on	off
					2000	off	on	on	off
					4000	on	off	on	off
					5000	off	off	on	off
					8000	on	on	off	off
					10000	off	on	off	off
					20000	on	off	off	off
					40000	off	off	off	off

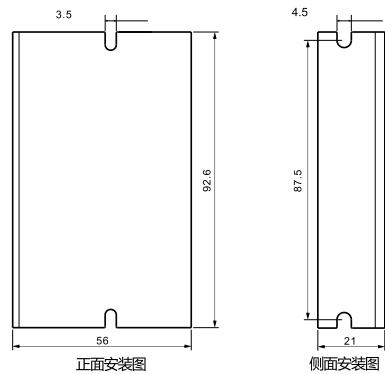
兩相脉衝型步進驅動器規格
Specifications of two-phase pulse stepping driver

兩相脉衝型步進驅動器規格
Specifications of two-phase pulse stepping driver

型號 Model	峰值電流 Peak Current	重量 Weight	輸入電壓範圍 Input Voltage Range	尺寸 Size	脉衝電平 Pulse Level	細分數 Subdivisions	匹配電機 Matching Motor
SD2422	2.2	106g	24-48VDC	92.6×56×21	200-25600	3.3-24V	20、28、35、39、42
SD3650	5.0	278g	24-50VDC	118×76×33	200-25600	3.3-24V	57
SD3656	5.6	278g	24-50VDC	118×76×33	200-25600	3.3-24V	57、60
SD3656-P	5.6	200g	24-50VDC	116×69×26.5	200-25600	24V/5V	42、57、60
SD4872	7.2	580g	18-80VAC	151×97×52	400-51200	3.3-24V	86
SD4872-P	7.2	300g	18-80VAC	119×77×35	400-25600	3.3-24V	57、60、86

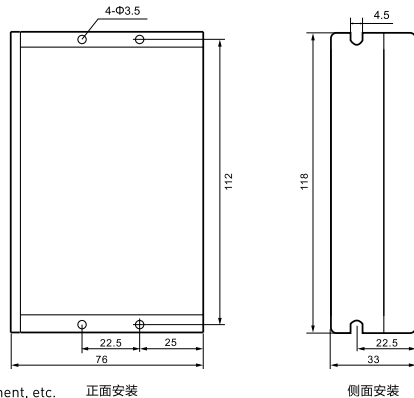
兩相脉衝步進驅動器列表
Two phase pulse stepping driver list

SD2422



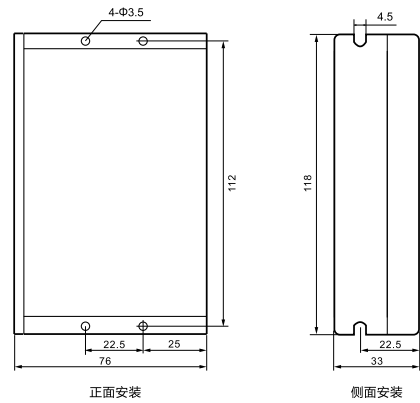
- 配套電機:42以下
Matching motor: below 42
- 脉衝模式:單脉衝/雙脉衝。
Pulse mode: single pulse / double pulse.
- 信號電平:3.3~24V兼容，PLC應用無需串聯電阻。
Signal level: 3.3~24v compatible, PLC application does not need series resistance.
- 電源電壓:24~48V直流供電，推薦24或36V
Power supply voltage: 24~48v DC power supply, 24 or 36V recommended
- 典型應用:打標機、焊錫機、激光、3D打印、視覺定位、自動裝配設備等。
Typical applications: marking machine, soldering machine, laser, 3D printing, visual positioning, automatic assembly equipment, etc.

SD3650



- 配套電機:57以下
Matching motor: below 57
- 脉衝模式:單脉衝/雙脉衝。
Pulse mode: single pulse / double pulse.
- 信號電平:3.3~24V兼容，PLC應用無需串聯電阻。
Signal level: 3.3~24v compatible, PLC application does not need series resistance.
- 電源電壓:24~50V直流供電，推薦36或48V。
Power supply voltage: 24~50v DC power supply, 36 or 48V recommended
- 典型應用:雕刻機、打標機、切割機、繪圖儀、激光、自動裝配設備等。
Typical applications: engraving machine, marking machine, cutting machine, plotter Laser, automatic assembly equipment, etc.

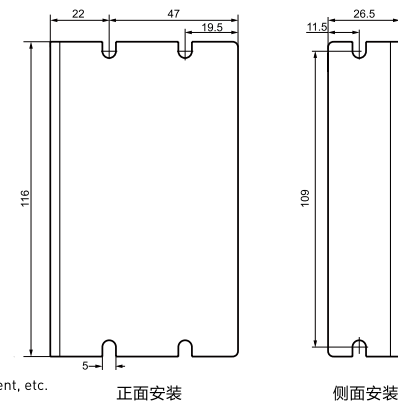
SD3656



- 配套電機:60以下
Matching motor: below 60
- 脉衝模式:單脉衝/雙脉衝。
Pulse mode: single pulse / double pulse.
- 信號電平:3.3~24V兼容，PLC應用無需串聯電阻。
Signal level: 3.3~24v compatible, PLC application does not need series resistance.
- 電源電壓:24~50V直流供電，推薦36或48V
Power supply voltage: 24~50v DC power supply, 36 or 48V recommended
- 典型應用:雕刻機、打標機、切割機、繪圖儀、激光、自動裝配設備等。
Typical applications: engraving machine, marking machine, cutting machine, plotter, laser, automatic assembly equipment, etc.

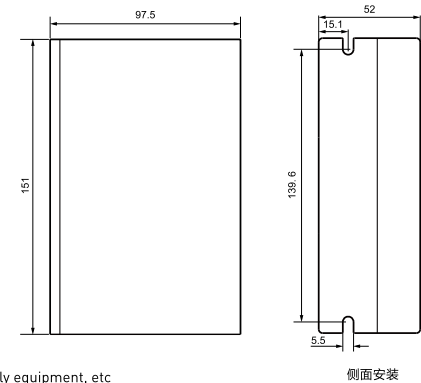
兩相脉衝型步進驅動器
Two-phase pulse stepping driver

SD3656-P



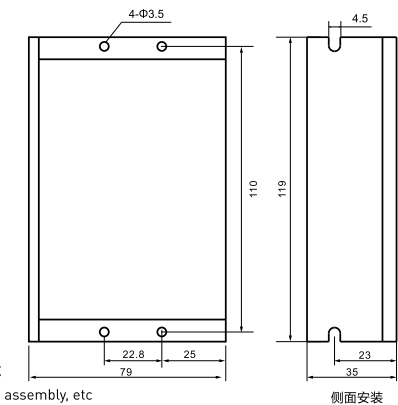
- 配套電機:60以下
Matching motor: below 60
- 脉衝模式:單脉衝/雙脉衝。
Pulse mode: single pulse / double pulse.
- 信號電平:24V(5V需定制)。
Signal level: 24V (5V to be customized).
- 電源電壓:24~50V直流供電，推薦36或48V。
Power supply voltage: 24~50v DC power supply, 36 or 48V recommended.
- 典型應用:雕刻機、打標機、切割機、繪圖儀、激光、自動裝配設備等。
Typical applications: engraving machine, marking machine, cutting machine, plotter, laser, automatic assembly equipment, etc.

SD4872



- 配套電機:86以下
Matching motor: below 86
- 脉衝模式:單脉衝/雙脉衝
Pulse mode: single pulse / double pulse
- 信號電平:3.3~24V兼容，PLC應用無需串聯電阻
Signal level: 3.3~24v compatible, PLC application does not need series resistance
- 電源電壓:24~100V直流或18~80V交流，推薦48V或60V交流
Power supply voltage: 24~100v DC or 18~80v AC, 60V AC is recommended
- 典型應用:雕刻機、打標機、切割機、繪圖儀、激光、自動裝配設備等
Typical applications: engraving machine, marking machine, cutting machine, plotter, laser, automatic assembly equipment, etc

SD4872-P

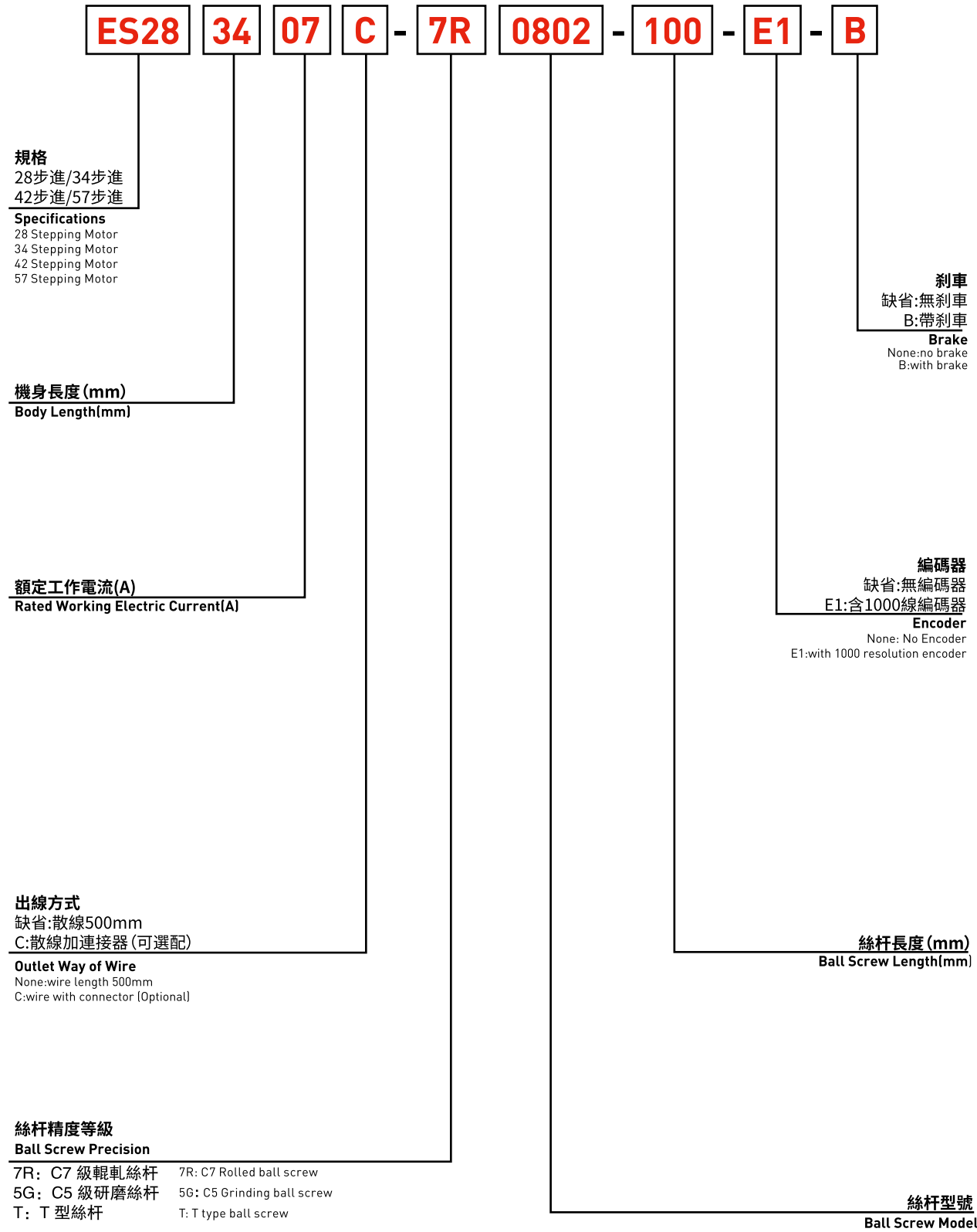


- 配套電機:86以下
Matching motor: below 86
- 脉衝模式:單脉衝/雙脉衝
Pulse mode: single pulse / double pulse
- 信號電平:3.3~24V兼容，PLC應用無需串聯電阻
Signal level: 3.3~24v compatible, PLC application does not need series resistance
- 電源電壓:24~100V直流或18~80V交流，推薦48V或60V交流
Power supply voltage: 24~100v DC or 18~80v AC, 60V AC is recommended
- 典型應用:雕刻機、貼標機、切割機、繪圖儀、數控機床、激光、自動裝配設備等
Typical applications: engraving machine, labeling machine, cutting machine, plotter, CNC machine tool, laser, automatic assembly, etc

滾珠螺母外驅式綫性步進電機
ES28 series ball nut external drive linear stepping motor

型号说明

Model description



滾珠螺母外驅式綫性步進電機
ES28series ball nut external drive linear stepping motor

ES28series

訂購代碼

Code



長度:50-125mm, 間隔:25
Length: 50-125mm, Interval: 25mm

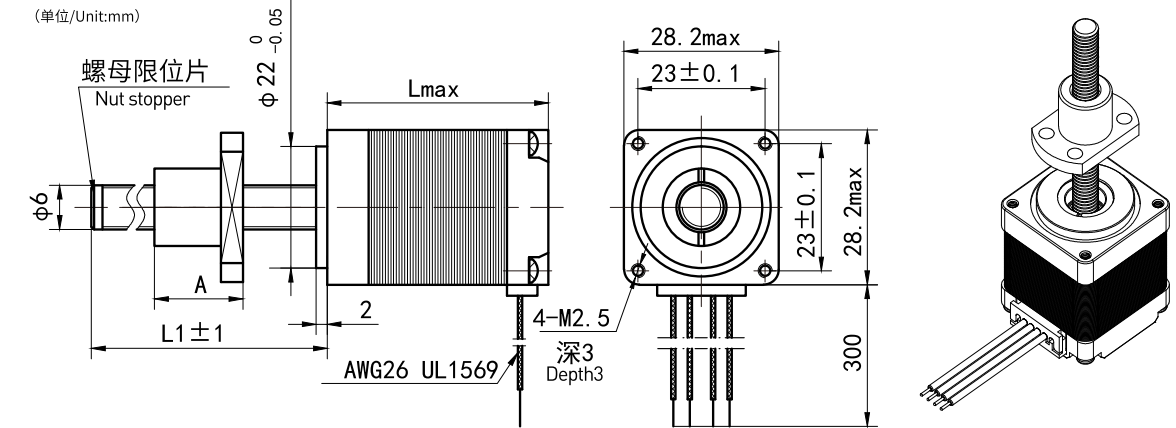
標準參數

Standard parameters

電機型號 Motor model	引綫數量 Number of leads	相電阻 Phase resistance ohm±10%	相電感 Phase inductance mH±20%	額定電流 Rated current A	保持轉矩 Holding torque mN·m	電機長度L(max) Motor length mm	電機重量 Motor weight g	轉動慣量 Moment of inertia g·cm ²
ES283407	4	6	3.2	0.7	60	34	120.5	9
ES285107	4	9	6.5	0.7	120	51	180	18

外形尺寸

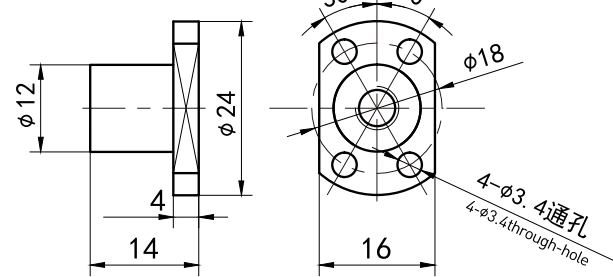
Overall dimension



實際行程: (L1-2-A) mm, 絲杆長度及端部加工可按照客戶要求定制。
Actual stroke: (L1-2-A) mm, screw length and end processing can be customized according to customer requirements.

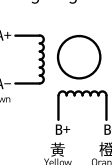
滾珠螺母0601

Ball nut 0601



接線圖

Wiring diagram



励磁顺序

Excitation sequence

STEP	A+	B+	A-	B-
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+

從安裝面看為順時針方向
Clockwise from the mounting surface

可配滾珠絲杆

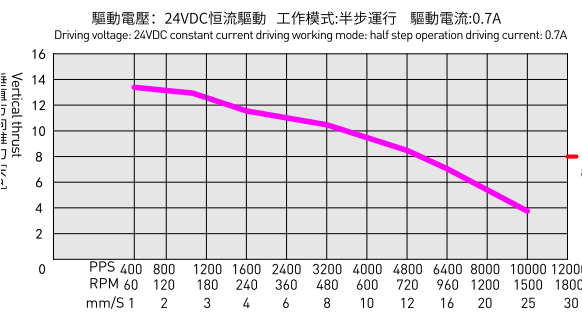
Ball screw

螺杆代碼 Screw code	直徑mm diameter	導程mm Lead	步長mm step length
G0601	φ6	1	0.005

力速特性曲線

Force velocity characteristic curve

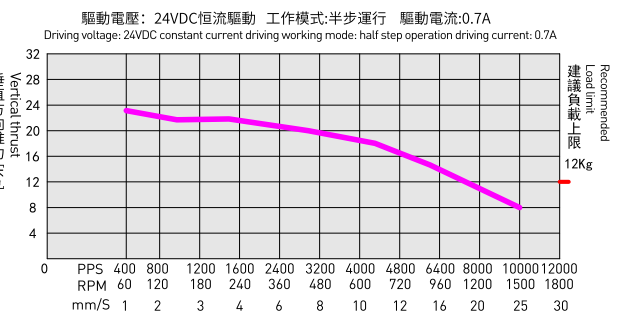
ES283407-0601



力速特性曲线

Force velocity characteristic curve

ES285107-0601



注: 此曲線只是在實驗室理想狀態下測得, 僅供選型參考。
Note: this curve is only measured in the ideal state of the laboratory and is only for model selection reference.

ES35 series 滾珠螺母外驅式綫性步進電機

ES35 series ball nut external drive linear stepping motor

訂購代碼

Code

E **S** **35** **34** **12** - **7R** **0802** - **100**

標準參數

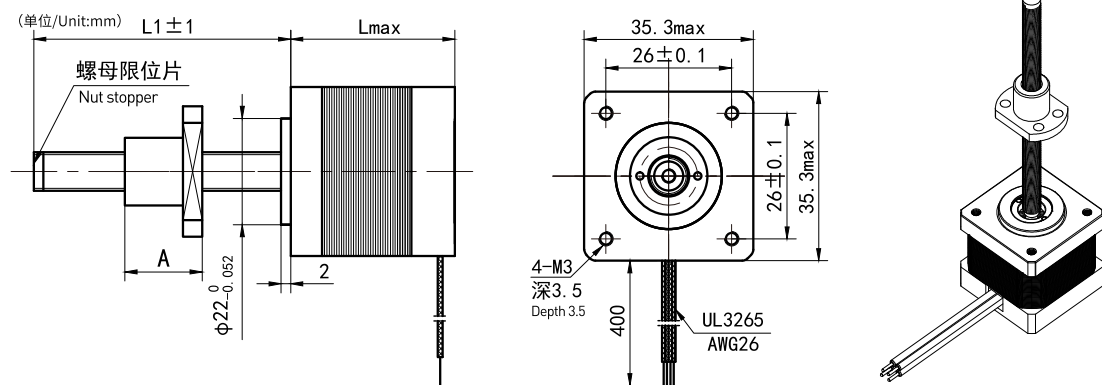
Standard parameters

電機型號 Motor model	引綫數量 Number of leads	相電阻 Phase resistance ohm±10%	相電感 Phase inductance mH±20%	額定電流 Rated current A	保持轉矩 Holding torque mN·m	電機長度L(max) Motor length mm	電機重量 Motor weight g	轉動慣量 Moment of inertia g·cm ²
ES353412	4	2	1.4	1.2	160	34	180	18

長度:75-250mm,間隔:25
Length: 75-250mm, Interval: 25mm

外形尺寸

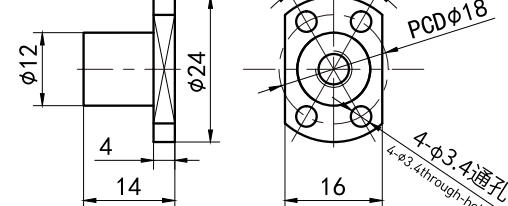
Overall dimension



實際行程: (L1-2-A) mm,絲杆長度及端部加工可按照客戶要求定制。
Actual stroke: (L1-2-A) mm, screw length and end processing can be customized according to customer requirements.

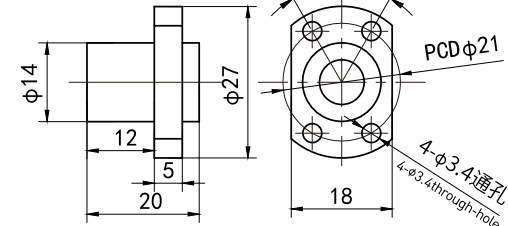
滾珠螺母0601

Ball nut 0601



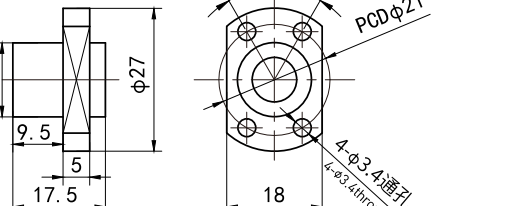
滾珠螺母0802.5

Ball nut 0802.5



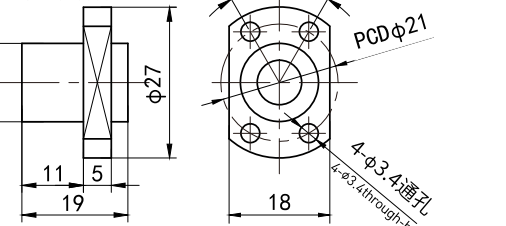
滾珠螺母0802

Ball nut 0802



滾珠螺母0806

Ball nut 0806



勵磁順序

Excitation sequence

STEP	A+	B+	A-	B-
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+

從安裝面看為順時針方向
Clockwise from the mounting surface

可配滾珠絲杆

Ball screw

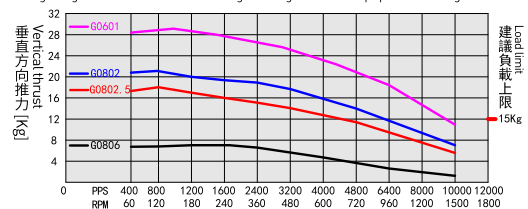
螺桿代碼 Screw code	直徑mm diameter	導程mm Lead	步長mm step length
G0601	φ6	1	0.005
G0802	φ8	2	0.01
G0802.5	φ8	2.5	0.0125
G0806	φ8	6	0.03

力速特性曲線

Force velocity characteristic curve

ES353412

驅動電壓: 24VDC恒流驅動 工作模式: 半步運行 驅動電流: 1.2A
Driving voltage: 24VDC constant current driving Working mode: half step operation Driving current: 1.2A



螺桿代碼	速度	推力
G0601	mm/S 1 2 3 4 6 8 10 12 16 20 25 30	mm/S 1 2 3 4 6 8 10 12 16 20 25 30
G0802	mm/S 2 4 6 8 12 16 20 24 32 40 50 60	mm/S 2 4 6 8 12 16 20 24 32 40 50 60
G0806	mm/S 6 12 18 24 36 48 60 72 96 120 150 180	mm/S 6 12 18 24 36 48 60 72 96 120 150 180
G0802.5	mm/S 2.5 5 7.5 10 15 20 25 30 40 50 62.5 75	mm/S 2.5 5 7.5 10 15 20 25 30 40 50 62.5 75

注: 此曲線只是在實驗室理想狀態下測得, 僅供選型參考。
Note: this curve is only measured in the ideal state of the laboratory and is only for model selection reference.

接線圖

Wiring diagram



ES42 series 滾珠螺母外驅式綫性步進電機

ES42 series ball nut external drive linear stepping motor

訂購代碼

Code

E **S** **42** **34** **16** - **7R** **0802** - **100**

標準參數

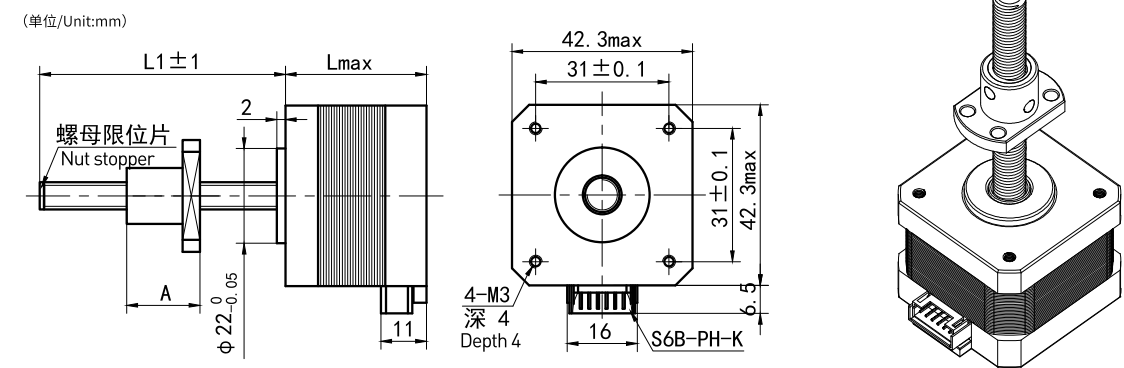
Standard parameters

電機型號 Motor model	引綫數量 Number of leads	相電阻 Phase resistance ohm±10%	相電感 Phase inductance mH±20%	額定電流 Rated current A	保持轉矩 Holding torque mN·m	電機長度L(max) Motor length mm	電機重量 Motor weight g	轉動慣量 Moment of inertia g·cm ²
ES423416	4	1.6	2.5	1.6	260	34	200	38
ES424816	4	2	4	1.6	430	48	340	82

長度:75-250mm,間隔:25
Length: 75-250mm, Interval: 25mm

外形尺寸

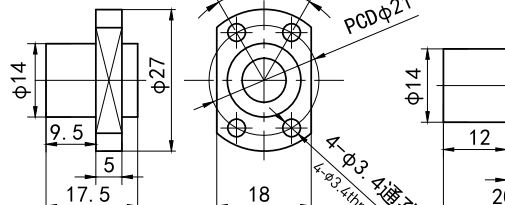
Overall dimension



實際行程: (L1-2-A) mm,絲杆長度及端部加工可按照客戶要求定制。
Actual stroke: (L1-2-A) mm, screw length and end processing can be customized according to customer requirements.

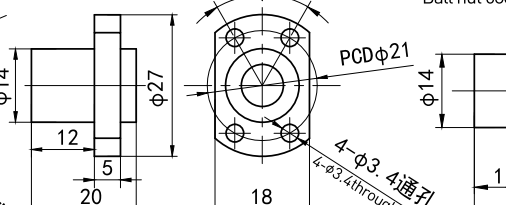
滾珠螺母0802

Ball nut 0802



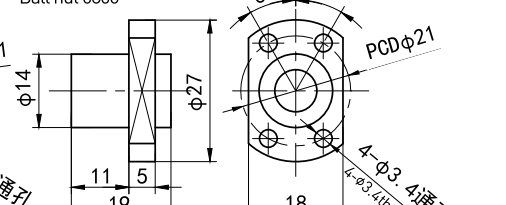
滾珠螺母0802.5

Ball nut 0802.5



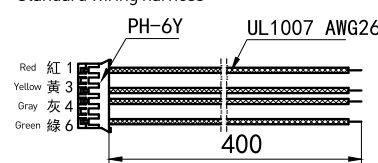
滾珠螺母0806

Ball nut 0806



標準線束:

Standard wiring harness



勵磁順序

Excitation sequence

STEP	A+	B+	A-	B-
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+

從安裝面看為順時針方向
Clockwise from the mounting surface

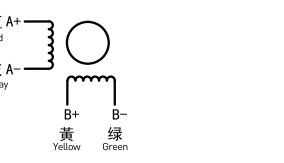
可配滾珠絲杆

Ball screw

螺桿代碼 Screw code	直徑mm diameter	導程mm Lead	步長mm step length
G0601	φ6	1	0.005
G0802	φ8	2	0.01
G0802.5	φ8	2.5	0.0125
G0806	φ8	6	0.03

接線圖

Wiring diagram

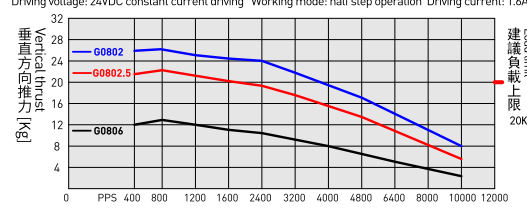


力速特性曲線

Force velocity characteristic curve

ES423416

驅動電壓: 24VDC恒流驅動 工作模式: 半步運行 驅動電流: 1.6A
Driving voltage: 24VDC constant current driving Working mode: half step operation Driving current: 1.6A



螺桿代碼	速度	推力
G0802	mm/S 2 4 6 8 12 16 20 24 32 40 50 60	mm/S 2 4 6 8 12 16 20 24 32 40 50 60
G0806	mm/S 6 12 18 24 36 48 60 72 96 120 150 180	mm/S 6 12 18 24 36 48 60 72 96 120 150 180
G0802.5	mm/S 2.5 5 7.5 10 15 20 25 30 40 50 62.5 75	mm/S 2.5 5 7.5 10 15 20 25 30 40 50 62.5 75

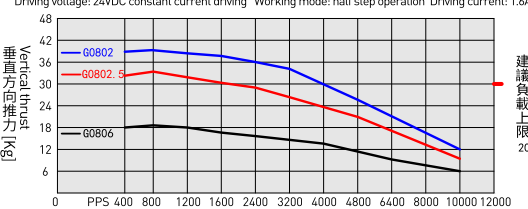
注: 此曲線只是在實驗室理想狀態下測得, 僅供選型參考。
Note: this curve is only measured in the ideal state of the laboratory and is only for model selection reference.

力速特性曲線

Force velocity characteristic curve

ES424816

驅動電壓: 24VDC恒流驅動 工作模式: 半步運行 驅動電流: 1.6A
Driving voltage: 24VDC constant current driving Working mode: half step operation Driving current: 1.6A



螺桿代碼	速度	推力
G0802	mm/S 2 4 6 8 12 16 20 24 32 40 50 60	mm/S 2 4 6 8 12 16 20 24 32 40 50 60
G0806	mm/S 6 12 18 24 36 48 60 72 96 120 150 180	mm/S 6 12 18 24 36 48 60 72 96 120 150 180
G0802.5	mm/S 2.5 5 7.5 10 15 20 25 30 40 50 62.5 75	mm/S 2.5 5 7.5 10 15 20 25 30 40 50 62.5 75

注: 此曲線只是在實驗室理想狀態下測得, 僅供選型參考。
Note: this curve is only measured in the ideal state of the laboratory and is only for model selection reference.

ES57 series 滚珠螺母外驅式綫性步進電機

ES57 series ball nut external drive linear stepping motor

訂購代碼

Code

E **S** **57** **45** **28** - **7R** **1205** - **100**

標準參數

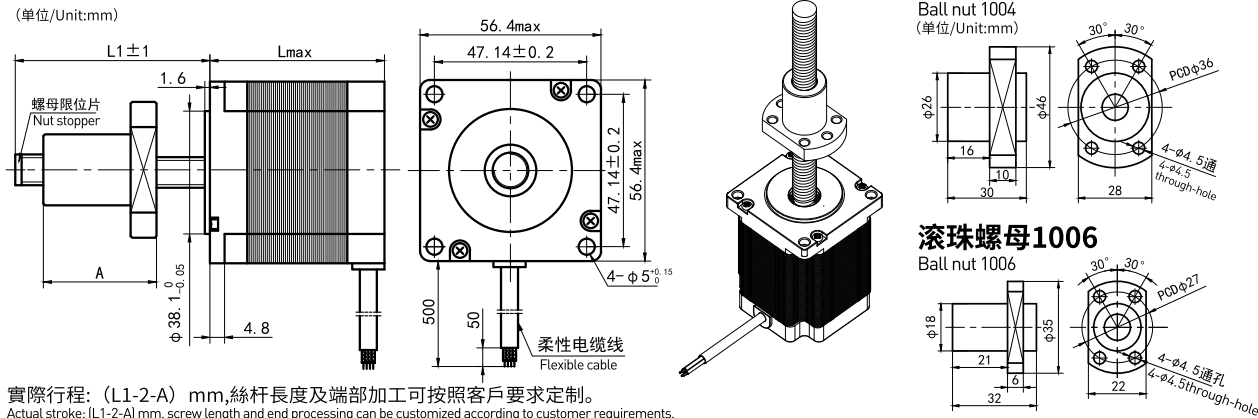
Standard parameters

電機型號 Motor model	引綫數量 Number of leads	相電阻 Phase resistance ohm±10%	相電感 Phase inductance mH±20%	額定電流 Rated current A	保持轉矩 Holding torque N·m	電機長度L(max) Motor length mm	電機重量 Motor weight kg	轉動慣量 Moment of inertia g·cm ²
ES574520	4	1.5	4.5	2.0	0.7	45	0.5	155
ES575628	4	1.2	3.5	2.8	1.3	56	0.62	280
ES577640	4	0.5	1.8	4.0	1.9	76	1	400

外形尺寸

Overall dimension

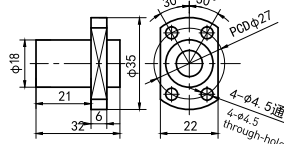
(單位/Unit:mm)



實際行程: (L1-2-A) mm, 絲杆長度及端部加工可按照客戶要求定制。
Actual stroke: (L1-2-A) mm, screw length and end processing can be customized according to customer requirements.

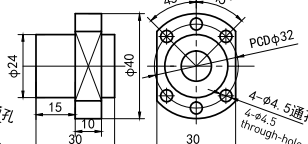
滚珠螺母1012

Ball nut 1012



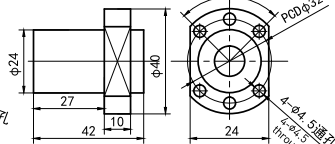
滚珠螺母1205

Ball nut 1205



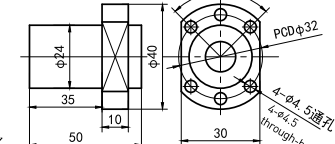
滚珠螺母1210

Ball nut 1210



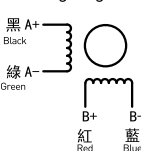
滚珠螺母1220

Ball nut 1220



接線圖

Wiring diagram



励磁順序

Excitation sequence

STEP	A+	B+	A-	B-
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+

從安裝面看為順時針方向
Clockwise from the mounting surface

可配滾珠絲杆

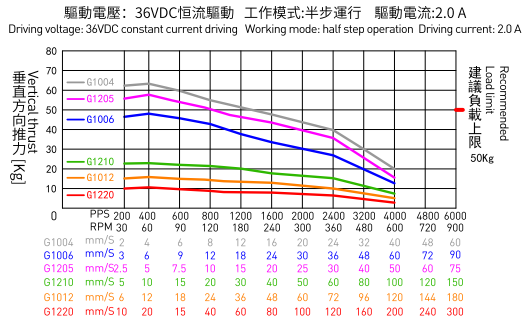
Ball screw

螺桿代碼 Screw code	直徑mm diameter	導程mm Lead	步長mm step length
G1004	φ10	4	0.02
G1006	φ10	6	0.03
G1012	φ10	12	0.06
G1205	φ12	5	0.025
G1210	φ12	10	0.05
G1220	φ12	20	1

力速特性曲線

Force velocity characteristic curve

ES574502

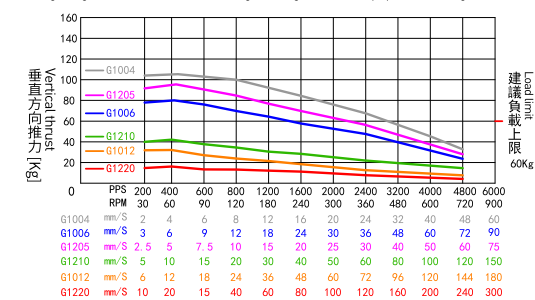


力速特性曲線

Force velocity characteristic curve

ES575628

驅動電壓: 36VDC恒流驅動 工作模式: 半步運行 驅動電流: 4.0 A
Driving voltage: 36VDC constant current driving Working mode: half step operation Driving current: 4.0 A



注: 此曲線只是在實驗室理想狀態下測得, 僅供選型參考。
Note: this curve is only measured in the ideal state of the laboratory and is only for model selection reference.

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