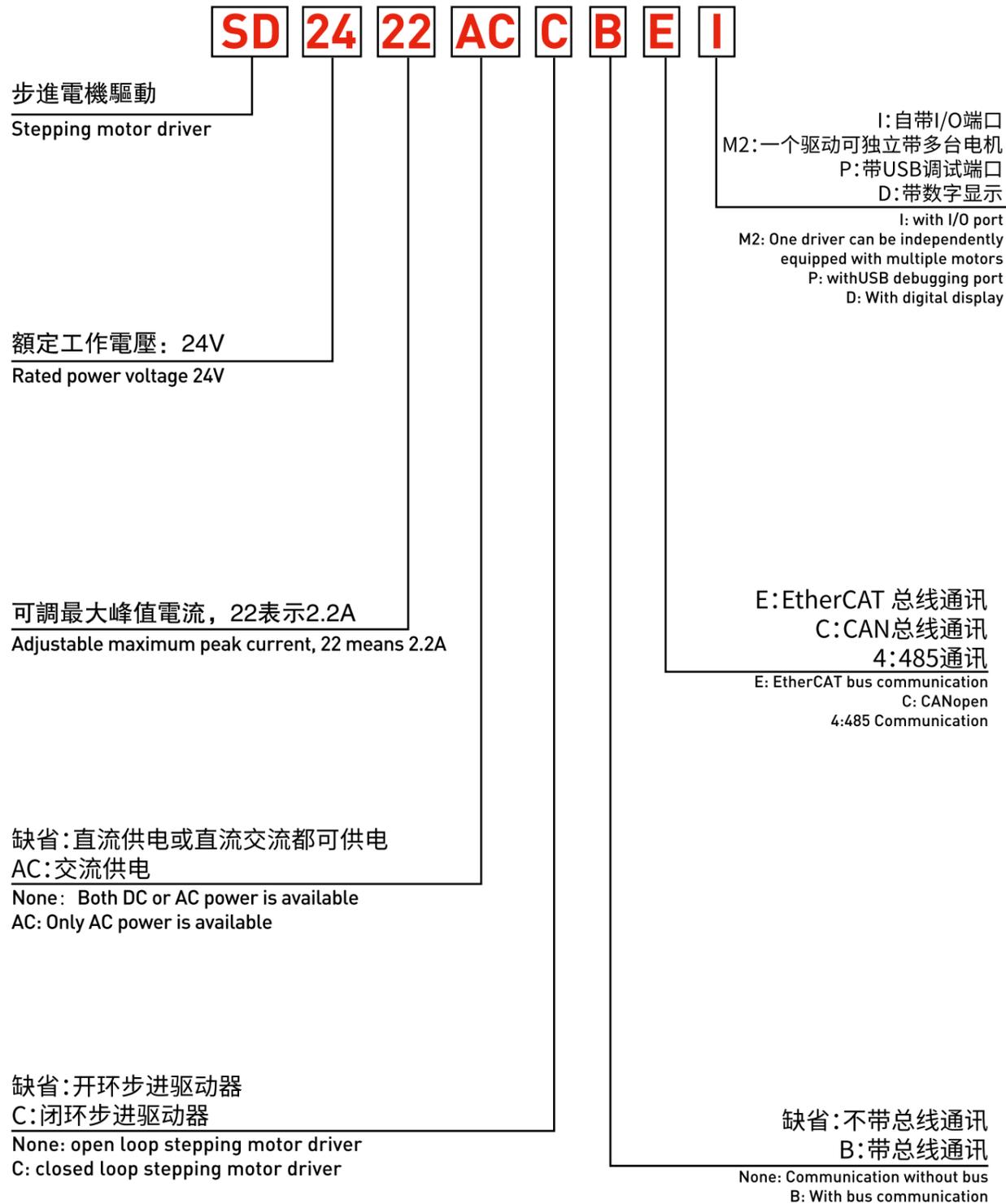


型號說明

Model description



SD系列脈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
脈衝兼容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

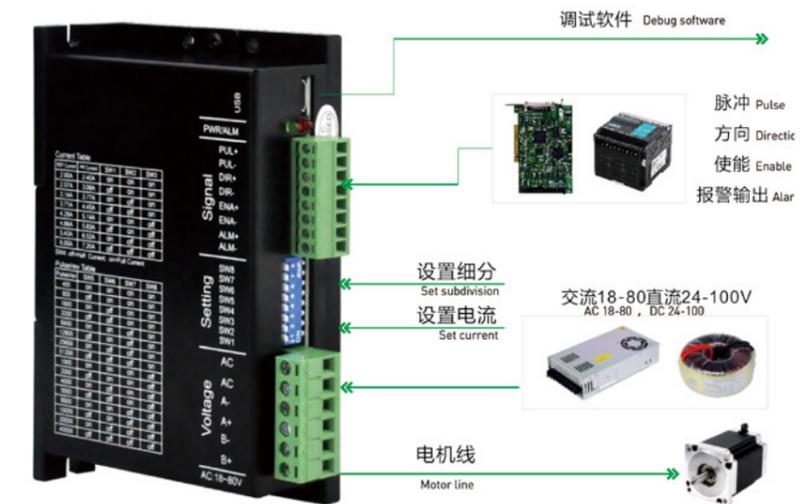
細分: 驅動器將整步細分成多步，角度變小、振動小，衍生為每轉脈衝數
To Subdivide: The driver subdivides the whole step into multiple steps, the angle becomes smaller and the vibration is smaller, which is derived into the number of pulses per revolution

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

輸出電流峰值 Output current peak	輸出電流有效值 Effective value of output current	SW1	SW2	SW3
2.40A	2.00 A	on	on	on
3.08A	2.57 A	off	on	on
3.77A	3.14 A	on	off	on
4.45A	3.71 A	off	off	on
5.14A	4.28 A	on	on	off
5.83A	4.86 A	off	on	off
6.52A	5.43 A	on	off	off
7.20A	6.00 A	off	off	off

半全流選擇 Half / full current selection

off	半流 Half Current	空閒電流為設定工作電流的一半 The idle current is half of the set working current
on	全流 Full Current	空閒電流等於設定工作電流 Idle current is equal to the set working current

微步細分設定 Microstep subdivision settings

步數/轉 Steps / revolution	SW5	SW6	SW7	SW8
400	on	on	on	on
800	off	on	on	on
1600	on	off	on	on
3200	off	off	on	on
6400	on	on	off	on
12800	off	on	off	on
25600	on	off	off	on
51200	off	off	off	on
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

兩相脈衝型步進驅動器規格

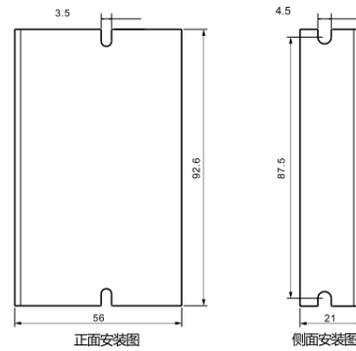
Specifications of two-phase pulse stepping driver

型號 Model	峰值電流 Peak Current	重量 Weight	輸入電壓範圍 Input Voltage Range	尺寸 Size	脈衝電平 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

兩相脈衝步進驅動器列表

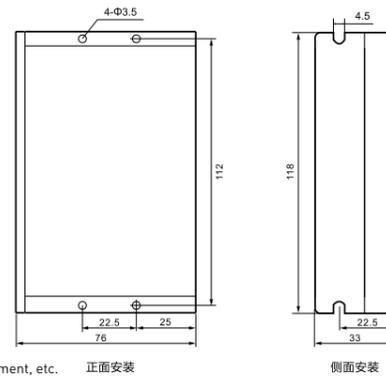
Two phase pulse stepping driver list

SD2422



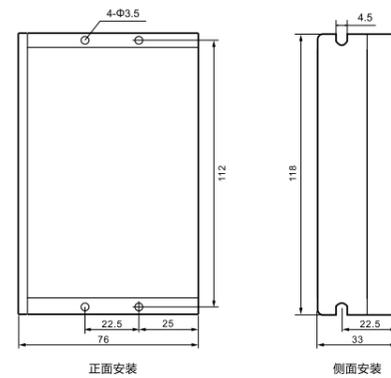
- 配套電機:42以下
Matching motor: below 42
- 脈衝模式:單脈衝/雙脈衝。
Pulse mode: single pulse / double pulse.
- 信號電平:3.3~24V兼容, PLC應用無需串聯電阻。
Signal level: 3.3-24v compatible, PLC application does not need series resistance.
- 電源電壓:24~48V直流供電, 推薦24或36V
Power supply voltage: 24-48v DC power supply, 24 or 36V recommended
- 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



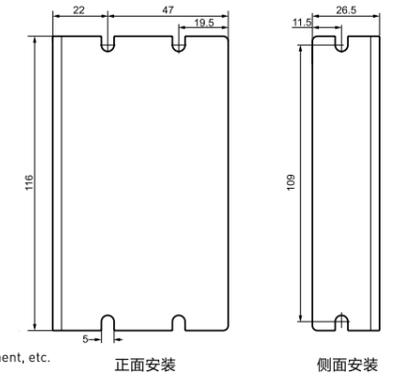
- 配套電機:57以下
Matching motor: below 57
- 脈衝模式:單脈衝/雙脈衝。
Pulse mode: single pulse / double pulse.
- 信號電平:3.3~24V兼容, PLC應用無需串聯電阻。
Signal level: 3.3-24v compatible, PLC application does not need series resistance.
- 電源電壓:24~50V直流供電, 推薦36或48V。
Power supply voltage: 24-50v DC power supply, 36 or 48V recommended
- 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



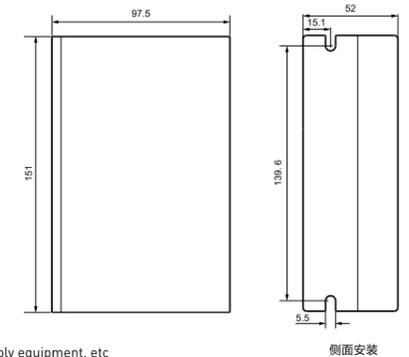
- 配套電機:60以下
Matching motor: below 60
- 脈衝模式:單脈衝/雙脈衝。
Pulse mode: single pulse / double pulse.
- 信號電平:3.3~24V兼容, PLC應用無需串聯電阻。
Signal level: 3.3-24v compatible, PLC application does not need series resistance.
- 電源電壓:24~50V直流供電, 推薦36或48V
Power supply voltage: 24-50v DC power supply, 36 or 48V recommended
- 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-P



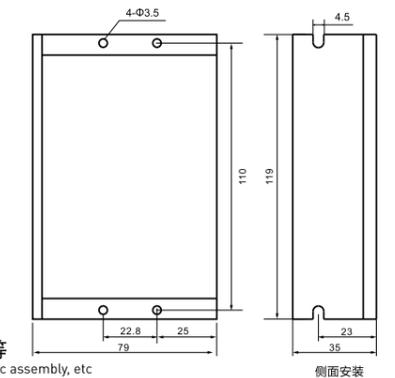
- 配套電機:60以下
Matching motor: below 60
- 脈衝模式:單脈衝/雙脈衝。
Pulse mode: single pulse / double pulse.
- 信號電平:24V(5V需定制)。
Signal level: 24V (5V to be customized).
- 電源電壓:24~50V直流供電, 推薦36或48V。
Power supply voltage: 24-50v DC power supply, 36 or 48V recommended.
- 典型應用:雕刻機、打標機、切割機、繪圖儀、激光、自動裝配設備等。
Typical applications: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

SD4872



- 配套電機:86以下
Matching motor: below 86
- 脈衝模式:單脈衝/雙脈衝
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
- 脈衝模式:單脈衝/雙脈衝
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、數控機床、激光、自動裝配設備等
Typical applications: engraving machine, marking machine, cutting machine, plotter, CNC machine tool, laser, automatic assembly, etc.