



Two-phase Micro Step Stepper Driver

2CM0870

Main features:

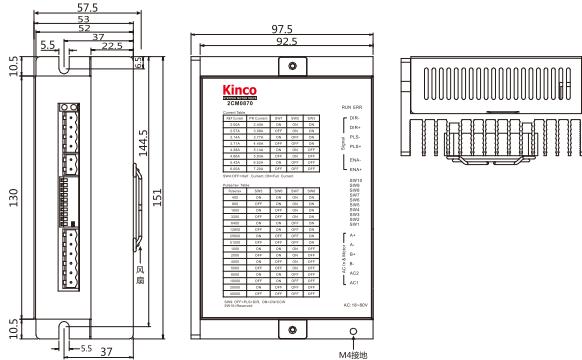
- Motor auto adaption function: The driver could generate optimal parameters automatically according to motor type, ensure motor run at optimal performance;
- Phase memory function;
- Automatic half-current function is selectable by DIP switches;
- Over-voltage and over-current protection functions and so on;
- Step smooth filter could smooth input pulse to reduce transient motion of motor, make sure motor run more smoothly;
- Opto-coupler isolated signal input, responding frequency up to 400KHz;
- 16 subdivision levels and 8 current levels are selectable by DIP switches;
- Pulse type is selectable by DIP switches: PUL+DIR&CW/CCW.

Kinco 2CM0870

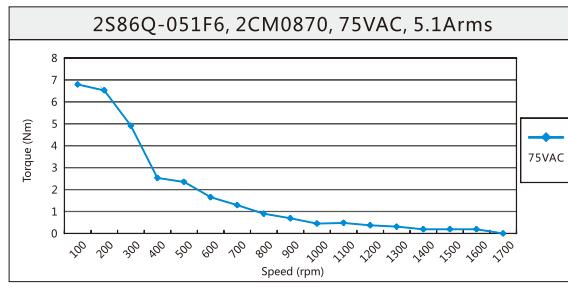
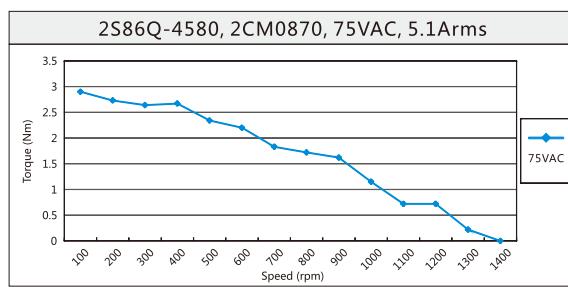
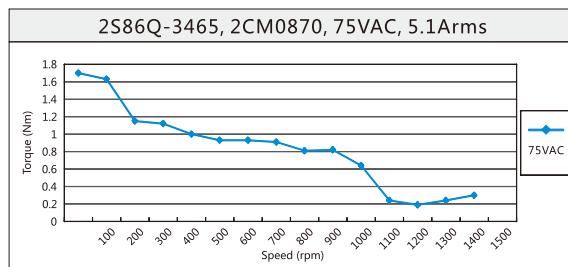
Two-phase Micro Step Stepper Driver

2CM0870 is a two-phase micro step stepper driver which adopts 18~80VAC power supply and could driver 57&86 hybird stepper motor with current less than 7.2A. The driver is popularly used in engraving machine, labeling machine, cutting machine, CNC machine and other applications require low vibration, low noise, high precision, high speed.

Mechanical dimensions Unit : mm



Torque-Frequency curve



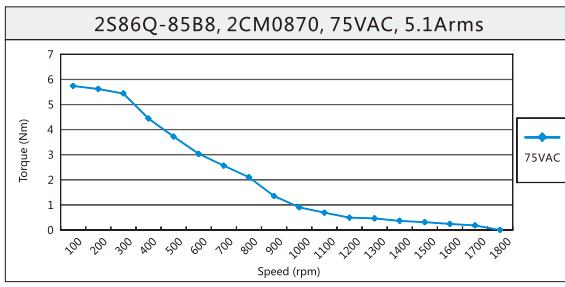
Technical Specifications

2CM0870

Input voltage	18-80VAC
Over-voltage protection	>110VAC
Under-voltage protection	<15VAC
Over heat protection	>85°C(Temperature of thermistor)
Input signal	PLS (CW), DIR(CCW), ENA signal Input voltage: 5VDC, Input current: 5mA@5VDC Valid input signal: >4VDC, Invalid input signal: <1.5VDC Max. input frequency of PLS,DIR signal: 400kHz, Min. pulse width: 1us
Control mode	Pulse control: Pulse+direction (PLS+DIR),Double pulse(CW/CCW)
Indicator	Combination of RUN and ERR indicates working status.
Protection	Over-voltage, under-voltage, over-current, over heat protection
Cooling method	Fan cooling
Operation environment	Avoid the environment with great amount of metallic powder, oil mist or erosive gases.
Operation humidity	<85%, RH(Non-condensing or water drops)
Operation temperature	0°C ~ +40°C
Storage temperature	-20°C ~ +70°C
Weight(Net)	0.696KG
Dimensions	151x97.5x57.5mm

Settings of DIP switch

Subdivision setting (Unit: PULSE/REV)			SW8=ON	SW8=OFF	Current setting (Unit: A)					
SW5	SW6	SW7	Pulse/rev			SW1	SW2	SW3	REF Current	PK Current
ON	ON	ON	400	1000	ON	ON	ON	2	2.4	
OFF	ON	ON	800	2000	OFF	ON	ON	2.57	3.08	
ON	OFF	ON	1600	4000	ON	OFF	ON	3.14	3.77	
OFF	OFF	ON	3200	5000	OFF	OFF	ON	3.71	4.45	
ON	ON	OFF	6400	8000	ON	ON	OFF	4.28	5.14	
OFF	ON	OFF	12800	10000	OFF	ON	OFF	4.86	5.83	
ON	OFF	OFF	25600	20000	ON	OFF	OFF	5.43	6.52	
OFF	OFF	OFF	51200	40000	OFF	OFF	OFF	6	7.2	



Kinco® Automation

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