Kinco 2M2280N Stepper Motor Drive
(Two-phase Bipolar Micro Step)

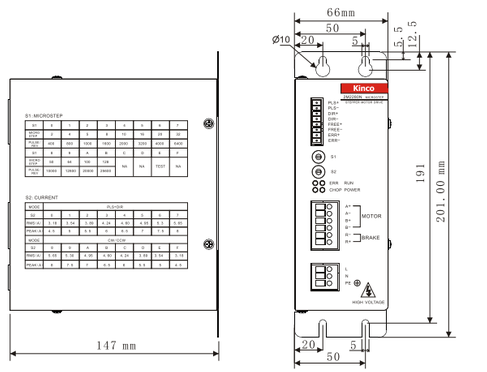
- High-performance, low prices;
- The input voltage of 2M2280N is 187VAC~253VAC (single-phase), help you to reduce the cost of transformer;
- Automatic parameter adjustable regulation;
- 2M2280N apply the test running function;
- Phase memory technology: the driver will record the phase position of the motor when the motor stopped, when re-power the driver, the motor won't shake anymore;
- PLS+DIR and CW/CCW control signal available;
- Optocoupler isolated output signal ERR;
- Automatic semi-current locking, reduce the motor's heat drastically;
- Optocoupler isolated signal input circuit;
- 12 micro-step value, the maximum micro-step value is 128;
- With the protection function of overvoltage, undervoltage, short circuit and heat protection.

Technical Specifications:

Parameter		Value
Input voltage		220V AC +/-15% (50/60Hz)
Output current		4.5A, 5A, 5.5A, 6A, 6.5A, 7A, 7.5A, 8A
Micro step		2/4/5/8/10/16/20/32/50/64/100/128
Input signal		PLS, DIR, FREE (current limit: 6~16 mA)
Control signal mode		PLS+DIR, CW/CCW
Output signal		Port: ERR (maximum current: 10mA)
Protection		Overvoltage, undervoltage, short circuit and heat protection.
Brake mode *		Available to connect the chop resister. Need custom.
Cooling way		Fan cooling
Environment	Operation environment	Avoid the environment with great amount of metallic powder, oil mist, or erosive gases.
	Operation humidity	<85%, RH
	Operation temperature	0℃~+40℃
	Storage temperature	-20℃~+70℃
Weight		1.5Kg
Dimensions		201mm×147mm×66mm
Ingress protection		IP20

*If you want to use the brake mode driver, please contact us first for the right type.

Mechanical Dimensions (Unit:mm)



Function of Rotary Switch

S1, Micro-step:

S1	0	1	2	3	4	5	6	7
Microstep	2	4	5	8	10	16	20	32
Pulse/rev	400	800	1000	1600	2000	3200	4000	6400
S1	8	9	A	B	C	D	E	F
Microstep	50	64	100	128	NA	NA	TEST	NA
Pulse/rev	10000	12800	20000	25600				

S2, Current:

Mode	PLS+DIR							
S2	0	1	2	3	4	5	6	7
Rms(A)	3.18	3.54	3.89	4.24	4.60	4.95	5.30	5.65
Peak(A)	4.5	5	5.5	6	6.5	7	7.5	8
Mode	CW/CCW							
S2	8	9	A	B	C	D	E	F
Rms(A)	5.65	5.30	4.95	4.60	4.24	3.89	3.54	3.18
Peak(A)	8	7.5	7	6.5	6	5.5	5	4.5

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N Series Stepper Drive

- 17 years design experience，reliable quality
- Microchip DSP core MCU，multifunction drive
- Smooth and quiet drive technology, the motor run smooth and quiet
- Manifold protection, LED light will show the Protection
- CE passed product
- Suitable to drive large range of 2 phase Stepping Motors

As a global leading industrial automation products and solution provider, Kinco has always been concentrating on the research and innovation of new products.

As the effort from Chinese and German technology, the design of Kinco stepper drive inherits German professional manufacturing concept. Its features inculde high-quality, hign performance, high stability and high cost-effective.

Kinco 2M880N Stepper Motor Drive

(Two-phase Bipolar Micro Step)

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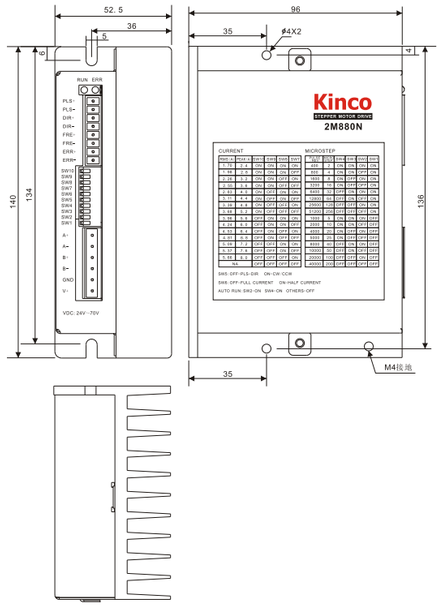
- PLS+DIR and CW/CCW control signal available;
- Optocoupler isolated output signal ERR;
- Automatic semi-current locking, reduce the motor's heat drastically;
- Optocoupler isolated signal input circuit;
- With the protection function of overvoltage, undervoltage, short circuit and heat protection.

Technical Specifications:

Parameter		Description
Input voltage		24~70V DC
Output current (peak, Unit: A)		2.4; 2.8; 3.2; 3.6; 4.0; 4.4; 4.8; 5.2; 5.6; 6.0; 6.4; 6.8; 7.2; 7.6; 8
Micro step		2/4/5/8/10/16/20/25/32/40/50/64/100/128/200/256
Input signal		PLS(CW), DIR(CCW), FREE; Current range: 6 ~16 mA
Control mode		PLS+DIR, CW/CCW
Output signal		ERR, open collector output, maximum current: 20mA
Protection		Over-voltage, under-voltage, short circuit, overheat
Cooling method		Nature air cooling
Environment	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℃~+40℃
	Storage temperature	-20℃~+70℃
Weight (net)		0.71Kg
Dimensions		140×96×52.5mm
Ingress protection		IP20

Mechanical Dimensions (Unit:mm)



Function of dip switch

Micro-step setting					Current setting, unit A(Peak)				
SW2	SW3	SW4	SW1=ON	SW1=OFF	SW7	SW8	SW9	SW10=ON	SW10=OFF
On	On	On	2	5	On	On	On	2.4	5.6
Off	On	On	4	10	Off	On	On	2.8	6.0
On	Off	On	8	20	On	Off	On	3.2	6.4
Off	Off	On	16	25	Off	Off	On	3.6	6.8
On	On	Off	32	40	On	On	Off	4.0	7.2
Off	On	Off	64	50	Off	On	Off	4.4	7.6
On	Off	Off	128	100	On	Off	Off	4.8	8
Off	Off	Off	256	200	Off	Off	Off	5.2	NA

Kinco 2M1180N Stepper Motor Drive

(Two-phase Bipolar Micro Step)

- High-performance, low prices;
- The input voltage of 2M1180N is 77VAC~123VAC (single-phase);
- Automatic parameter adjustable regulation;
- Phase memory technology: the driver will record the phase position of the motor when the motor stopped, when re-power the driver,the motor won't shake anymore;
- PLS+DIR and CW/CCW control signal available;
- Optocoupler isolated output signal ERR;
- Automatic semi-current locking, reduce the motor's heat drastically;
- Optocoupler isolated signal input circuit;
- 12 micro-step value, the maximum micro-step value is 128;
- With the protection function of overvoltage, undervoltage, short circuit and heat protection.

Technical Specifications:

Parameter		Value
Input voltage		77VAC~123VAC, (50/60Hz)
Output current		4.5A, 5A, 5.5A, 6A, 6.5A, 7A, 7.5A, 8A
Micro step		2/4/5/8/10/16/20/32/50/64/100/128
Input signal		PLS, DIR, FREE (current limit: 6~16 mA)
Control signal mode		PLS+DIR, CW/CCW
Output signal		Port: ERR (maximum current: 10mA)
Protection		Overvoltage, undervoltage, short circuit and heat protection.
Brake mode *		Available to connect the chop resister. Need custom.
Cooling way		Fan cooling
Environment	Operation environment	Avoid the environment with great amount of metallic powder, oil mist, or erosive gases.
	Operation humidity	<85%, RH
	Operation temperature	0℃~+40℃
	Storage temperature	-20℃~+70℃
Weight		1.5Kg
Dimensions		201mm×147mm×66mm
Ingress protection		IP20

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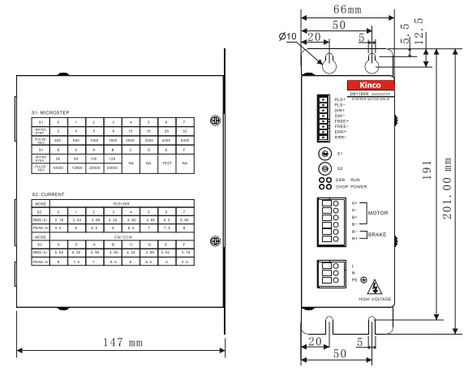
Mechanical Dimensions (Unit:mm)



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Microstep	50	64	100	128	NA	NA	TEST	NA
Pulse/rev	10000	12800	20000	25600				

S2, Current:								
Mode	PLS+DIR							
S2	0	1	2	3	4	5	6	7
Rms(A)	3.18	3.54	3.89	4.24	4.60	4.95	5.30	5.65
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Mode	CW/CCW							
S2	8	9	A	B	C	D	E	F
Rms(A)	5.65	5.30	4.95	4.60	4.24	3.89	3.54	3.18
Peak(A)	8	7.5	7	6.5	6	5.5	5	4.5