

- Input Voltage 77~123VAC, (50Hz/60Hz)
- Over-Voltage Protection 187VDC
- Under-Voltage Protection 90VDC
- Cooling Method (Fan Cooling)
- Operating Temperature 0° C~ +40° C
- Operating Humidity 85%, RH
- (Non-Condensing or Water Drops) • Weight 1.5Kg
- Operation Temperature 0° C ~ +40° C
- Storage Temperature -20° C ~ +70° C
- Ingress Protection IP20



The 2M1180N Series Stepper Driver provides improved dynamic drive performance. This Series drive accepts 77~123VAC input, with up to 8 Amps per phase, and provides users with a step resolution of up to 25,600 steps per revolution. As an additional feature, this drive provides users with the ability to select an auto reduce current setting which helps reduce power consumption and motor heat, while improving motor lifetime. Also, the isolation inputs help minimize interference from external electrical equipment as well has improving performance.



L011314

(Units Are In mm)

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ESCRIPTION

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2M1180N



TECHNICAL SPECIFICATIONS



Technical Specifications					
Parameter	Value				
Input Voltage	77 to 123VAC, (50Hz)				
Overvoltage Protection	187VDC				
Undervoltage Protection	90VDC				
Output Current (Peak, Unit:A)	4.5A - 8A Total 8 Setting Values				
Micro Step	2 to 128 Total 12 Subdivisions				
Adaptable Motor	56, 86 and 110 Series Two-Phase Bipolar Hybrid Stepper Motor				
Input Signal	PLS(CW), DIR(CCW), A/B, FREE; Current Range: 6-16mA				
Output Signal	ERR, Open Collector Output, Maximum Current: 20mA				
Control Signal Mode	PLS+DIR; CW/CCW, A+B				
Automatic Half Current	The Driver Will Reduce Phase Current of the Motor by A Half in 1.5 Seconds				
Operation Indication	Combination of Run and Error LED				
Protection	Over-Voltage, Under-Voltage, Short Circuit and Heat Protection				
Dynamic Braking Circuit	Absorb Regenerated Energy of Motor by Connecting to Power Resistor, Custom Function				
Technical Specifications (Environment)					
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)	1.5Kg				
Dimensions	201 x 147 x 66 mm				
Ingress Protection	IP20				

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S1, Micro	-Step:	Switch	for Su	ıbdivisi	on an	d Test	Runn	ing Function
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	Α	В	С	D	E	F
Microstep	50	64	100	128	ΝΙΔ	ΝΑ	терт	NIA
Pulse/Rev	10000	12800	20000	25600		INA	IESI	INA

S2, Current: Switch for Current and PLS/DIR, CW/CCW Setting								
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	В	С	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

Mode	S1	S2	Method
Auto Run	Е	0~F	Set S1=E, S2=0~F When Driver is Powered Off, Then Power on the Driver, The Motor Will Run at 60RPM Automatically.
PLS+DIR	0~B	0~7	Set S1=0-B, S2=0~7 When Driver is Powered Off, Then Power on the Driver, the Motor Will Run in PLS+DIR Mode.
CW/CCW	0~B	0~7	Set S1=0-B, S2=8-F When Driver is Powered Off, Then Power pm the Driver, the Motor Will Run in CW/CCW Mode
Half Current	F	С	Set S1 and S2 as the "MODE Settings (as the Left Table)"
Full Current	F	D	When Driver is Powered Off. Then Power On the Driver, the 4
Step Smooth Filter Enable	F	F	LED's Will Run as: RUN LED Blinks, POWER LED is Green, ERR LED is Red, CHOP LED is Off. It Means the Mode Setting is Succeed, then Bestart the driver, the driver will work in
Step Smooth Filter Disable	F	E	setting mode.

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