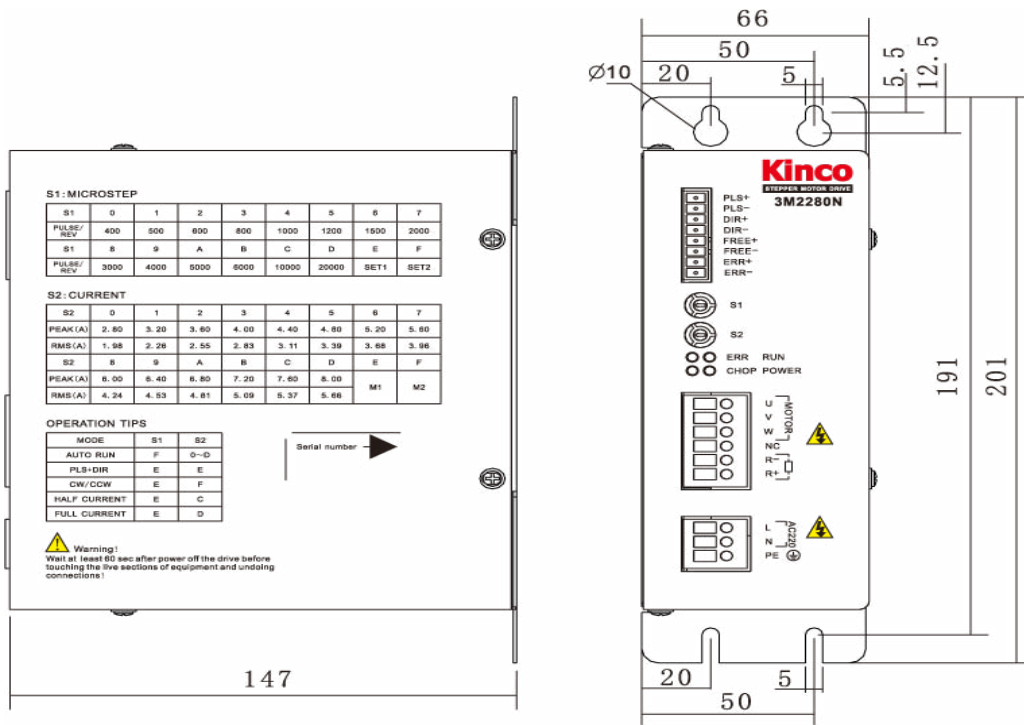


- **Input Voltage 220V AC± 15% (50Hz/60Hz) (187~253VAC)**
- **Over-Voltage Protection 395VDC**
- **Under-Voltage Protection 200VDC**
- **Cooling Method (Forced Air Cooling)**
- **Operating Temperature -0°C - 40°C**
- **Operating Humidity 85% (Non-Condensing or Water Drops)**
- **Weight 1.5Kg**
- **Ingress Protection IP20**

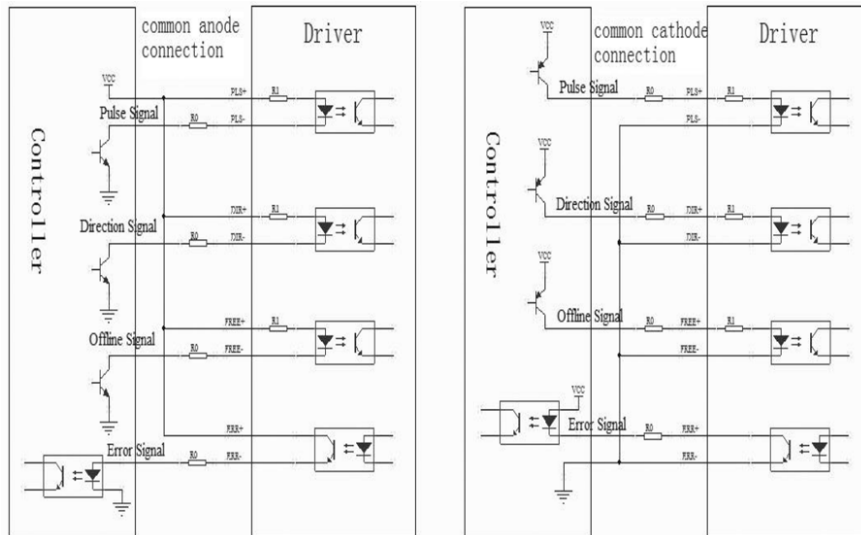


The 3M2280N Series Stepper Driver provides improved dynamic drive performance. This series drive accepts 187~253VAC input, with up to 8 Amps per phase, and provides users with a step resolution of up to 20,000 steps per revolution. As an additional feature, this drive provides users with the ability 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 as improving performance.

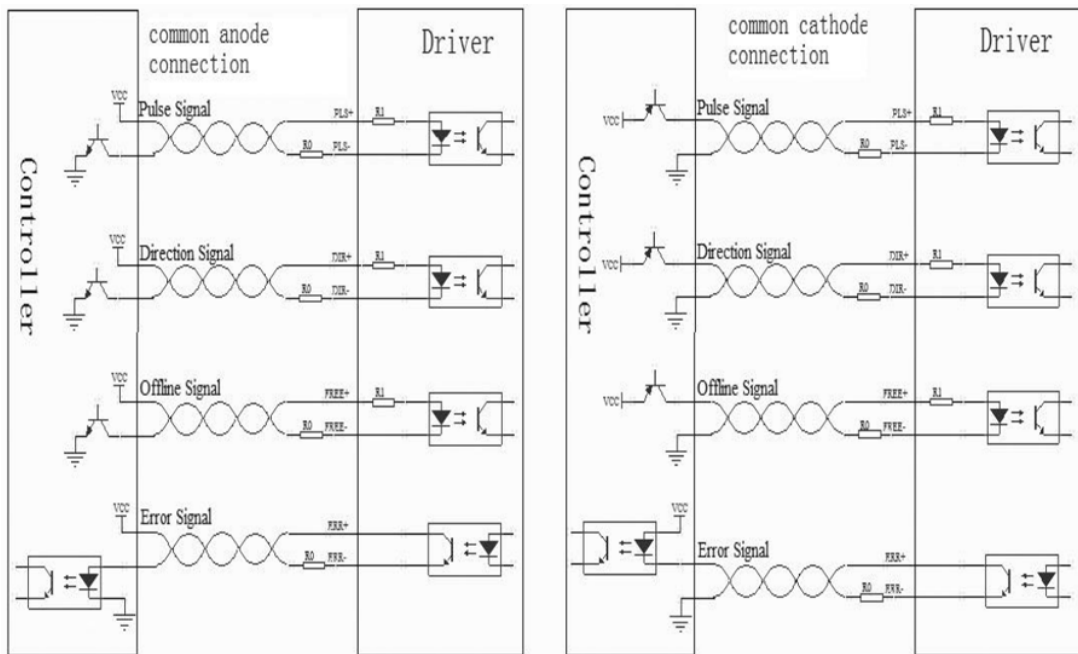


(Units Are In mm)

L011318



General Wiring Diagram



Twisted Wiring Diagram

Technical Specifications	
Input Voltage	220V AC + 15% (50Hz)(187 to 253VAC)
Over-Voltage Protection	395VDC
Under-Voltage Protection	200VDC
Micro Step (unit: pulse/rev)	400 to 20000, Total 14 Subdivisions
Phase Current (Peak)	2.8 to 8.0, Total of 14 Setting Values
Subdivision	400 to 30000 Pulse/Rev. Total 16 Subdivisions
Adaptable Motor	110 and 130 Series Three-Phase Hybrid Stepper Motor
Input Signal	Three Control Signal Ports: PLS(CW)/DIR(CCW)/FREE; Current Range; 6 to 16mA
Control Signal Mode	PLS+DIR, CW/CCW, A+B
Output Signal	ERR, Open Collector Output, Maximum Current: 10mA
Automatic Half Current	The Driver will Reduce Phase Current of the Motor by a Half in 1.5 Seconds
Protection	Over-Voltage, Under-Voltage, Short Circuit, and Overheat Protection
Cooling Method	Forced Air Cooling
Operation Environment	Avoid the Environment with a Great Amount of Metallic Powder, Oil Mist, or Erosive Gases
Operation Humidity	<85%, RH(Non-Condensing or Water Drops)
Operation Temperature	0°C to +40°C
Storage Temperature	-20°C to 70°C
Weight	1.5Kg
Dimensions	201x147x66mm
Ingress Protection	IP20

S1, Micro-step: switch for subdivision and test running function								
S1	0	1	2	3	4	5	6	7
Pulse/rev	400	500	600	800	1000	1200	1500	2000
S1	8	9	A	B	C	D	E	F
Pulse/rev	3000	4000	5000	6000	10000	20000	SET1	SET2
S2, Current: switch for current and PLS/DIR, CW/CCW setting								
Mode	PLS+DIR							
S2	0	1	2	3	4	5	6	7
Peak (A)	2.80	3.20	3.60	4.00	4.40	4.80	5.20	5.60
Rms (A)	1.98	2.26	2.55	2.83	3.11	3.39	3.68	3.96
Mode	CW/CCW							
S2	8	9	A	B	C	D	E	F
Peak (A)	6.00	6.40	6.80	7.20	7.60	8.00	M1	M2
Rms (A)	4.24	4.53	4.81	5.09	5.37	5.66		

Mode	S1	S2	Method
Auto Run	F	O-D	Set S1 & S2 as S1=F, S2=O-D When Driver is Power Off, then Power On the Driver, the Motor Will Run Automatically.
PLS+DIR	E	E	Set S1 and S2 as the "MODE Settings (as the Left Table)" When Driver is Power Off, then Power On the Driver, the 4 Standards LED Will Run as; this Means the Mode Setting Success, then Reboot the Driver, the Driver Will Work in Setting Mode.
CW/CCW	E	F	
Half Current	E	C	
Full Current	E	D	
Step Smooth Filter Enable	F	F	Enable Smoothing Acceleration/Deceleration Function.
Step Smooth Filter Disable	F	E	Enable Immediately Response Mode.