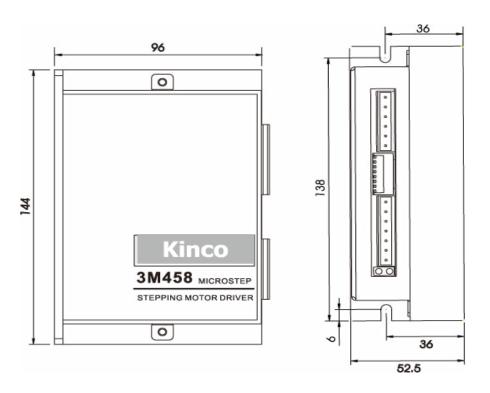


- Supply Voltage 24 ~ 40 VDC
- Output Phase Current 3.0 -~ 5.8A
- Control Signal Input Current 6 ~ 16mA
- Cooling Method (Natural Air Cooling)
- Operating Temperature -10° C ~ 45° C
- Operating Humidity 85% (Non-Condensing or Water Drops)
- Weight 0.7Kg

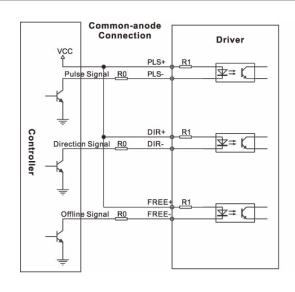


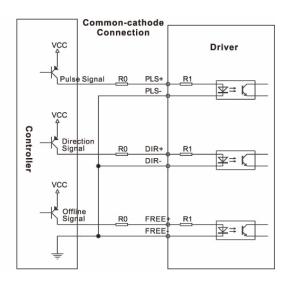
The 3M458 Series Stepper Driver provides improved dynamic drive performance. This series drive accepts 24~40VDC input, with up to 5.8 Amps per phase, and provides users with a step resolution of up to 10,000 steps per revolution. As an additional feature, this drive provides users with the ability to 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 has improving performance..



(Units Are In mm)







Technical Specifications (Environment)				
Cooling Method	Fan Cooling			
Operation Environment	Avoid the Environment with Great Amount of Metallic Powde Oil Mist, or Erosive Gases			
Operation Humidity	85%, (Non-Condensing or Water Drops)			
Operation Temperature	-10 C to +40 C			
Protection	Over-Voltage, Under-Voltage, Over-Current, Overheat			
Weight (Net)	0.7Kg			
Control Signal Input Current	6 - 16mA			
Output Phase Current	3.0 to 5.8A			
Supply Voltage	24 to 40V DC			

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ON	1	2	3	4	5	6	/	8

Serial Number	Function of ON	Function of OFF
DIP1-DIP3	Subdivision Setting	Subdivision Setting
DIP4	Full Current of Static Current	Half Current of Static Current
DIP5-DIP8	Output Current Setting	Output Current Setting

DIP6

OFF

OFF

OFF

ON

ON

DIP5

OFF

OFF

OFF

OFF

ON

The Output Phase Current Stting Table

DIP8

OFF

ON

ON

ON

ON

Outout Current

3.0A

4.0A

4.5A

5.2A

5.8A

DIP7

OFF

OFF

ON

ON

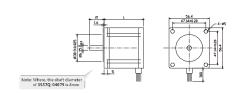
ON

The Subdivision Setting Table					
DIP1	DIP2	DIP3	Subdivision		
ON	ON	ON	400 Steps/Revolution		
ON	ON	OFF	500 Steps/Revolution		
ON	OFF	ON	600 Steps/Revolution		
ON	OFF	OFF	1000 Steps/Revolution		
OFF	ON	ON	2000 Steps/Revolution		
OFF	ON	OFF	4000 Steps/Revolution		
OFF	OFF	ON	5000 Steps/Revolution		
OFF	OFF	OFF	10000 Steps/Revolution		
Pulse/ Rev	10000	12800	20000		

Three-phase stepper motor/57 series



Dimensions (Unit:mm)



Specification

Technical Specifications	3S57Q-04079	3S57Q-04056		
Step angle	1.2°	1.2°		
Phase current (A)	5.8	5.6		
Holding torque (Nm)	1.5	0.9		
Damping torque (Nm)	0.07	0.04		
Winding resistance (Ω)	1.05±10%	0.7±10%		
Winding inductance (mH)	2.4±20%	1.7±20%		
Motor inertia (kg.cm²)	0.48	0.3		
Motor length L (mm)	79	56		
Shaft diameter (mm)	8	6.35		
Number of lead wires	6			
Insulation class	В			
Withstand voltage level	600VAC 1S 5mA			
Max. axial load (N)	15			
Max. radial load (N)	75			
Operating temperature	-20°C ~ +50°C			
Surface temperature rise	Max.80°C (Working with rated phase current)			
Insulation impedance	Minimum 100MΩ, 500V DC			
Weight (kg)	1 0.72			
Startup freq. with no load(Hz)*	2.1K 2.4K			

Note: The startup freq. is tested under condition of 2000 steps/round, only for reference.

Motor cable





Note: AWG 18 4 UL1332 , Length: 400.

Torque-frequency curve

