HARDWARE-CNC.NL

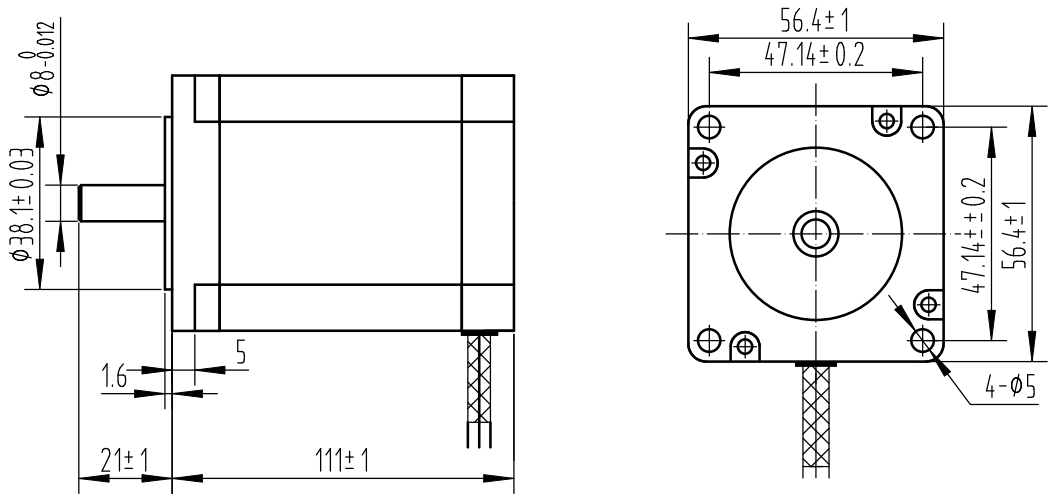
HIGH TORQUE HYBIRD STEPPING MOTOR

Nema 23 - 3 Nm - 8 leads - SS

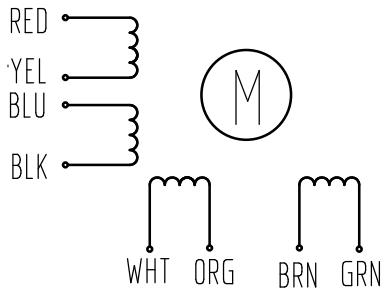
PHASE	STEP ANGLE	CONNECTION STYLE	CURRENT	RESISTANCE	INDUCTANCE	HOLDING TORQUE	WEIGHT
	DEG/STEP		A	ohms	mH	N.m	Kg
4	1.8°	Parallel	4	0.85	3.8	300	1.5
		Series	2	3.4	15.2		
		Unipolar	2.8	1.7	3.8	210	

- Dimensions:

(unit=mm)



- Wiring Diagram :



- Connection to driver:

Parallel Connection

Red + Blue	: A+
Yellow + Black	: A-
White + Brown	: B+
Orange + Green	: B-

Series Connection

Red	: A+
Yellow + Blue	: Connect to each other, but not to the driver
Black	: A-
White	: B+
Orange + Brown	: Connect to each other, but not to the driver
Green	: B-

For more information about stepper motor connections, please visit our website: www.impulsecnc.nl/faq/stappenmotoren/connections

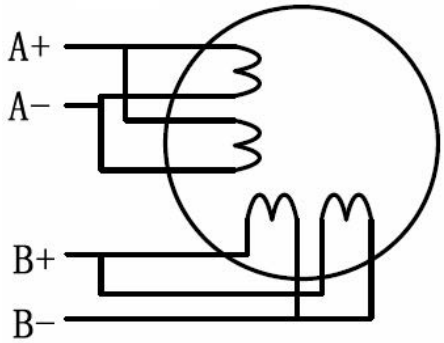
General specifications	
Step Angle (°)	1.8
Temperature Rise (℃)	80 Max (rated current、2 phase on)
Ambient Temperature (℃)	-20~+50
Number of Phase	2
Insulation Resistance (MΩ)	100 Min (500VDC)
Insulation Class	Class B
Max.radial force (N)	75 (20mm from the flange)
Max.axial force (N)	15

How to connect the stepper motor to a driver:

Wiringdiagram Parallel connection (recommended):

Red + Blue : A+
Yellow + Black : A–

White + Brown : B+
Orange + Green : B–

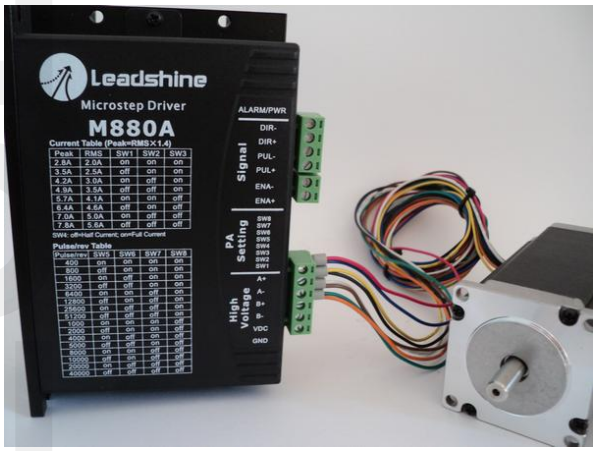


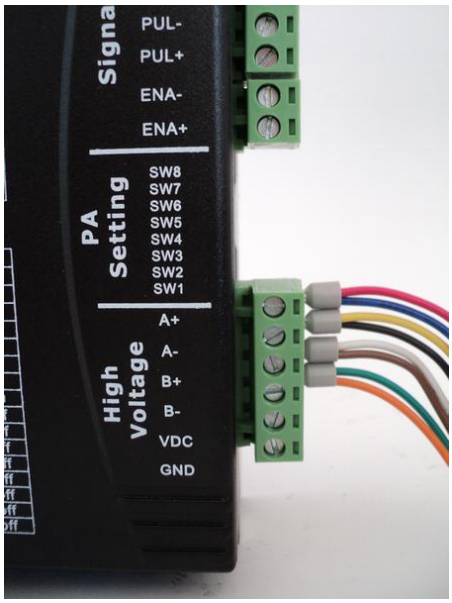
And this is how it looks like:

Note: Normally the motor would be connected to a 4 lead cable.

To make the connections clear we've connected

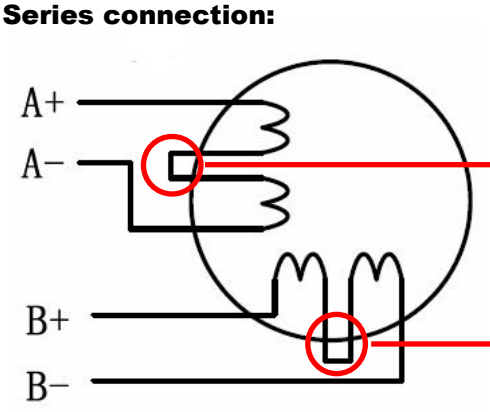
them directly to the driver.





Wiringdiagram Series connection:

Red : A+
Black : A–



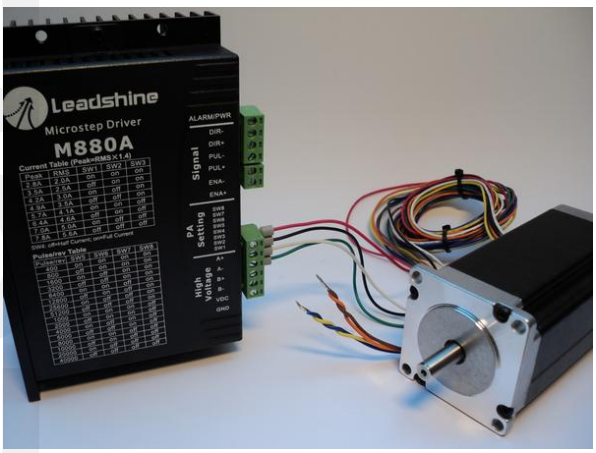
White : B+
Green : B–

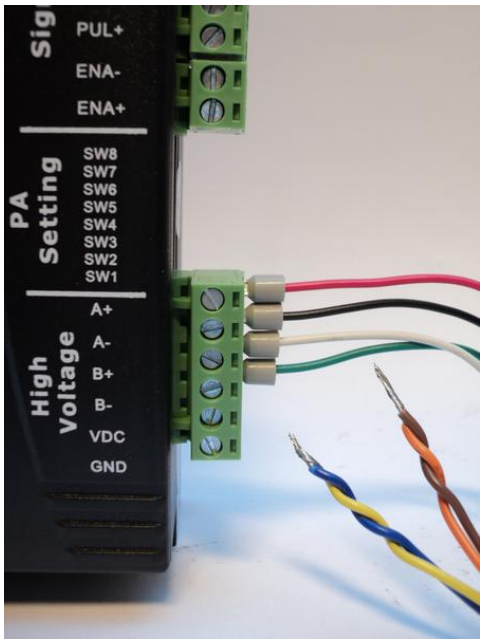
Yellow and blue are connected to each other, but not to the driver.

Orange and Brown are connected to each other, but not to the driver.

And this is how it looks like:

Note: Normally the motor would be connected to a 4 lead cable. To make the connections clear we've connected them directly to the driver.





Note: Never leave the wiring blank. We did this just to demonstrate the wiring. Solder the ends of the wiring and add heat-shrink tubing.