

OUKEDA | NEMA 34 STEPPER MOTOR

4.5Nm / 8.5Nm / 12Nm • 1.8° • 2.5V • 6A • Keyway • 86mm



SPECIFICATION COMPARISON

3 MOTOR OPTIONS

OPTION 01

4.5Nm

32mm shaft
Max 78mm body

OPTION 02

8.5Nm

32mm shaft
Max 118mm body

OPTION 03

12Nm

37mm shaft
Max 118mm body

Specification	4.5Nm	8.5Nm	12Nm
Electrical Specification			
Holding Torque	450Ncm	850Ncm	1200Ncm
Number of Phase	2	2	2
Step Angle	1.8°±5%	1.8°±5%	1.8°±5%
Rated Voltage	2.5VDC	2.5VDC	2.5VDC
Rated Current/phase	6.0A	6.0A	6.0A
Phase Resistance	0.48Ω±10%	0.7Ω±10%	0.7Ω±10%
Inductance	3.5mH±20%	5.8mH±20%	5.8mH±20%
Insulation Class	Class B	Class B	Class B
Insulation Resistance	100MΩ min.	100MΩ min.	100MΩ min.
Physical Specification			
Frame Size	86×86mm	86×86mm	86×86mm
Body Length	78mm max	118mm max	118mm max
Shaft Diameter	Φ14mm	Φ14mm	Φ14mm
Shaft Length	32mm	32mm	37mm
Mounting Holes	4-Φ6.5mm	4-Φ6.5mm	4-Φ6.5mm
Mounting Hole Spacing	69.58mm	69.58mm	69.58mm
Lead Length	1000mm	1000mm	1000mm
Lead Wire	AWG18	AWG18	AWG18
Weight	Approx.2.3kg	Approx.3.8kg	Approx.4.5kg
Connection			
A+	Black	Black	Black
A-	Green	Green	Green
B+	Red	Red	Red
B-	Blue	Blue	Blue

AVAILABLE OPTIONS

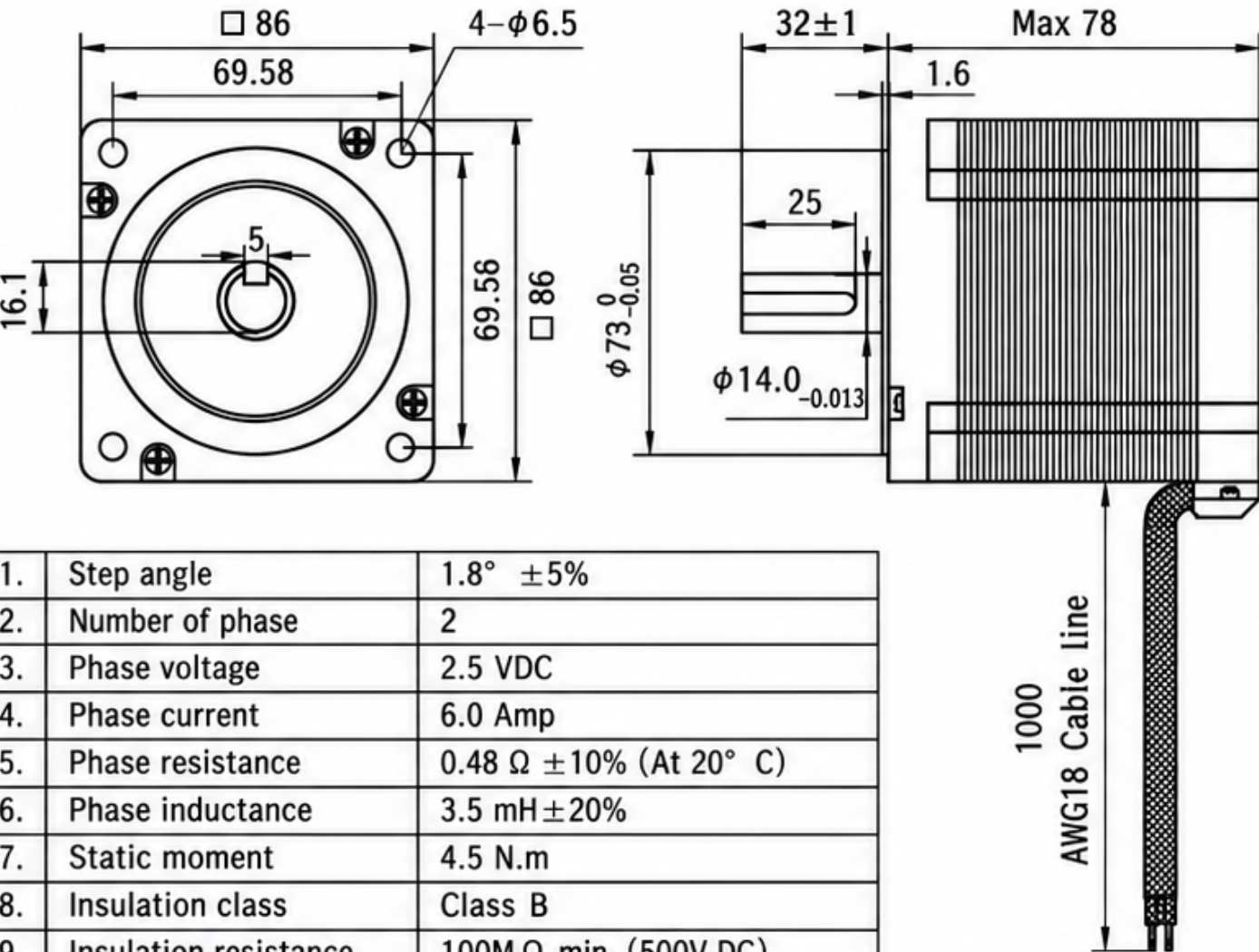
Option 1: 450Ncm - 32mm Shaft | Option 2: 850Ncm - 32mm Shaft | Option 3: 1200Ncm - 37mm Shaft

Comparison based on the supplied specifications. The 1200Ncm drawing on page 4 is an illustrative reference.

OUKEDA MOTOR

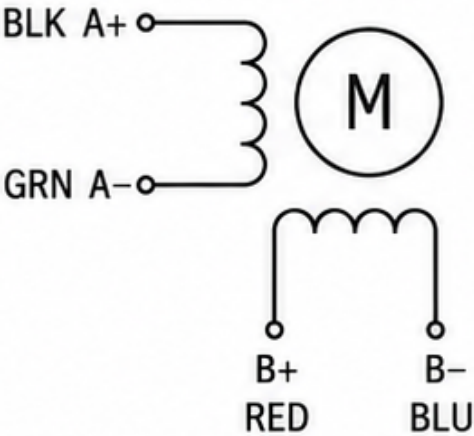
The output shaft size can be customized

Dimensional Drawing



1.	Step angle	1.8° ±5%
2.	Number of phase	2
3.	Phase voltage	2.5 VDC
4.	Phase current	6.0 Amp
5.	Phase resistance	0.48 Ω ±10% (At 20° C)
6.	Phase inductance	3.5 mH ±20%
7.	Static moment	4.5 N.m
8.	Insulation class	Class B
9.	Insulation resistance	100M Ω min. (500V DC)
10.	Ambient temperature	-20° ~ +50°
11.	Ambient humidity	15% to 95%
12.	Motor weight	Approx 2.3 Kg
13.	Use voltage	VDC: 24-110V VAC: 24-72V
14.	Recommended drive	OK2D872

Wiring Diagram



Excitation sequence and direction of clockwise

STEP	A+	B+	A-	B-
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+

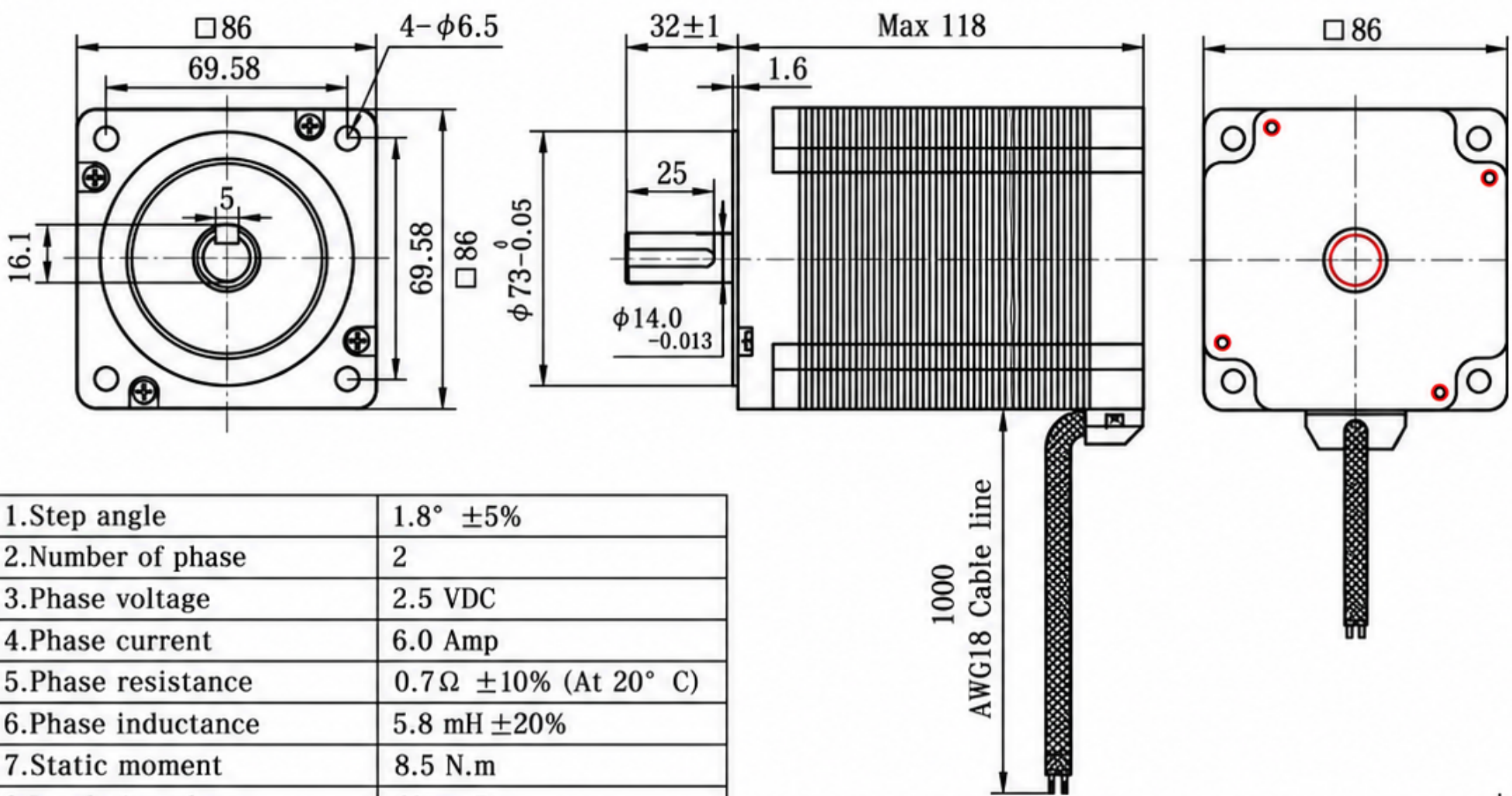
seen from the mounting surface it is clockwise

Technology		Unit	mm	OUKEDA®	Drawing	OK86DL78-604A-32J-C1
Design						
Check						
Approved	HE ZHEN	Scale	1 : 1			

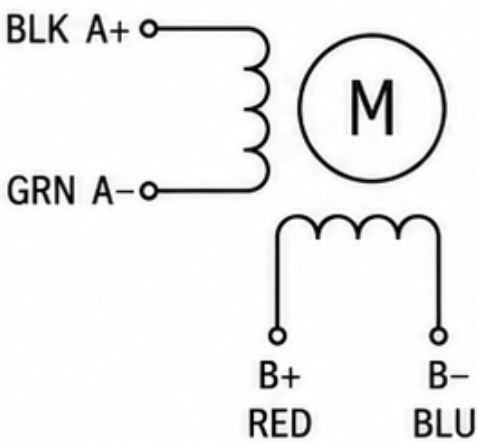
OUKEDA MOTOR

The output shaft size can be customized

Dimensional drawing



Wiring Diagram



1.Step angle	1.8° ±5%
2.Number of phase	2
3.Phase voltage	2.5 VDC
4.Phase current	6.0 Amp
5.Phase resistance	0.7Ω ±10% (At 20° C)
6.Phase inductance	5.8 mH ±20%
7.Static moment	8.5 N.m
8.Insulation class	Class B
9.Insulation resistance	100MΩ min. (500V DC)
10.Ambient temperature	-20° ~+50°
11.Ambient hum	15% to 95%
12.Motor weight	Approx 3.8 Kg
13.Use voltage	VDC:24-110V VAC:24-72V
14.Recommended drive	OK2D872

Excitation sequence and direction of clockwise

STEP	A+	B+	A-	B-
1	+	+	-	-
2	-	+	-	+
3	-	-	+	+
4	+	-	+	-

seen from the mounting surface It 1sclockwise

Technology		Unit	mm	OUKEDA®	Drawing	OK86DL118-604A-32J-C1
Design						
Check						
Approved	HE ZHEN	Scale	1: 1			

