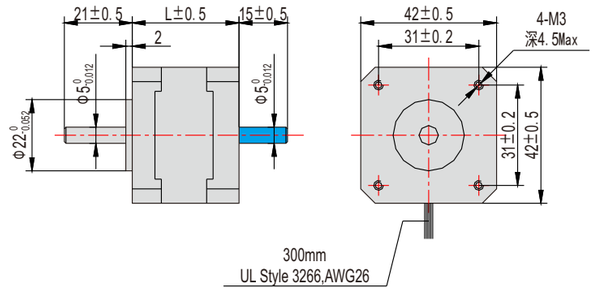
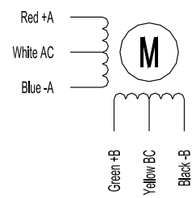
□ 42mm

Dimension



Wiring Diagram



※ The above drawings are for dual shaft stepping motor, while single shaft without part
※ Costomized features are available, such as additional eccentric gear box, power off brake, encoder.
※ Spigot installation with front cover is a must when set up the motor, tolerance fiding should be taken into account, to secure the concentricity of output shaft and motor output.

Technical Parameters

Item	Specifications
Step Angle	1.8°
Step Angle Accuracy	±5%(full step,no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80°C Max (rated current,2 phase on)
Ambient Temperature	-20°C~+50°C
Insulation Resistance	100MΩ Min500VDC
Dielectric Strength	500V AC for one minute
Shaft Radial Force	0.02Max (450g load)
Axial Play	0.08Max (450g load)
Max Radial Force	28N (20mm from the flange)
Max Axial Force	10N

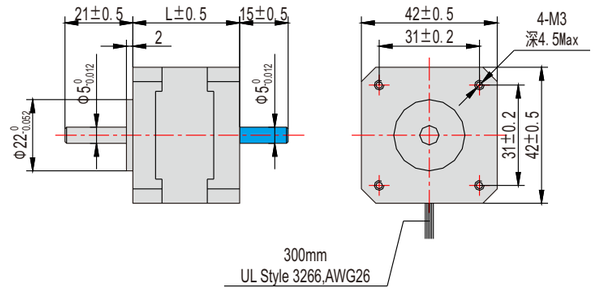
Technical Parameters

Stepper motor Model		Stepper Drive Model	Current /phase	Resistance /phase	Inductance /phase	Holding Torque	Lead	Rotor Inertia	Weight	Length
Single shaft	Double shaft		A	Ω	mH	kg-cm		g-cm²	Kg	L(mm)
YSD243-NA6	YSD243-NB6	SEA2D34 SEA2D44	0.95	4.2	2.5	1.6	6	35	0.22	33
YSD244-NA6	YSD244-NB6		1.2	3.3	3.2	2.6	6	54	0.28	39
YSD245-NA6	YSD245-NB6		1.2	3.3	2.8	3.17	6	68	0.35	47
YSD246-NA6	YSD246-NB6		1.2	6	7	6.5	6	102	0.5	59

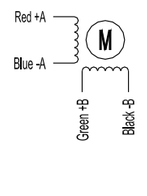
Instar Electrical

□ 42mm

Dimension



Wiring Diagram



※ The above drawings are for dual shaft stepping motor, while single shaft without part
※ Costomized features are available, such as additional eccentric gear box, power off brake, encoder.
※ Spigot installation with front cover is a must when set up the motor, tolerance fiding should be taken into account, to secure the concentricity of output shaft and motor output.

Technical Parameters

Item	Specifications
Step Angle	1.8°
Step Angle Accuracy	±5%(full step,no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80°C Max (rated current,2 phase on)
Ambient Temperature	-20°C~+50°C
Insulation Resistance	100MΩ Min500VDC
Dielectric Strength	500V AC for one minute
Shaft Radial Force	0.02Max (450g load)
Axial Play	0.08Max (450g load)
Max Radial Force	28N (20mm from the flange)
Max Axial Force	10N

Technical Parameters

Stepper motor Model		Stepper Drive Model	Current /phase	Resistance /phase	Inductance /phase	Holding Torque	Lead	Rotor Inertia	Weight	Length
Single shaft	Double shaft		A	Ω	mH	kg-cm		g-cm²	Kg	L(mm)
YSD243-NA4	YSD243-NB4	SEA2M24	1.5	1.2	1.8	2.6	4	34	0.22	33
YSD244-NA4	YSD244-NB4		1.5	1.5	2.8	3.6	4	54	0.28	39
YSD245-NA4	YSD245-NB4		2	1.1	1.6	4.5	4	68	0.35	47
YSD246-NA4	YSD246-NB4		2	1.4	2.5	7.0	4	80	0.5	59

2-PHASE STEPPING MOTOR