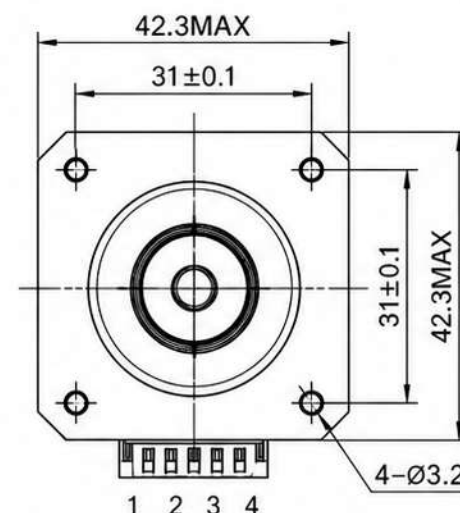


Hybrid Stepper Motor Outline Drawing

Technical drawing of a stepper motor outline showing dimensions in millimeters. The drawing is a side view of a cylindrical motor with a central shaft. Key dimensions include: total length 48MAX, outer diameter Ø5-0.012, inner diameter Ø22-0.05, and various segment lengths and tolerances such as 24±0.5, 14.5±1, 22±0.2, 14±0.2, and 4.5±0.1. A hatched section indicates a specific material or internal feature.



Drive Voltage	24 V
Step Angle	1.8° ±5%
Number of Phases	2
Rated Voltage	2.7 V
Rated Current / Phase	1.5 A
Holding Torque	4 kg·cm (Min.)
Detent Torque	150 g·cm (Ref.)
Phase Resistance	1.8 Ω ±10%
Phase Inductance	3.5 mH ±20% (1 kHz, 1 V RMS)
Dielectric Strength	500 VAC / 1 min (Max.)
Insulation Resistance	500 MΩ / 100 VDC (Min.)
Rotor Inertia	75 g·cm ² (Ref.)
Weight	0.36 kg
Insulation Class	B (130°C)
Operating Temperature	-10°C ~ 55°C (20%RH ~ 90%RH)
Storage Temperature	-20°C ~ 65°C (15%RH ~ 90%RH)

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

1. Do not lift the motor by holding the lead wires.
2. Do not apply external force to the wire outlet.
3. Avoid dropping the motor or subjecting it to impact.
4. Do not plug or unplug the motor connector when the motor is powered.
5. Do not disassemble and reassemble the motor.
6. The motor direction is defined when viewing from the mounting face.

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