



# SHERLINE STEPPER MOTOR SPECIFICATIONS—SKC MOTORS

Sherline P/N:	67127 (w/ DIN plug and flats on shaft) 67130 (no plug, flats on shaft)
Manufacturer:	SKC (Shinano Kenshi)
Mfg. P/N (Type):	SST57D3201 (double shaft)
Frame size:	NEMA #23
Step angle:	1.8°
Voltage:	3.2 V
Current:	2.0 A/Φ
Resistance:	1.6 Ω/Φ
Inductance:	3.6 mH/Φ
Holding torque:	9.7 kg-cm
Rotor inertia:	250 g-cm <sup>2</sup>
Number of wire leads:	6 (See color code diagram FIG. 2)
Weight:	1.32 lb (0.6 Kg.)
Length:	2.13" (54 mm)
Shaft:	Double ended, 1/4" dia.

Lead Wire Connection and Color Code

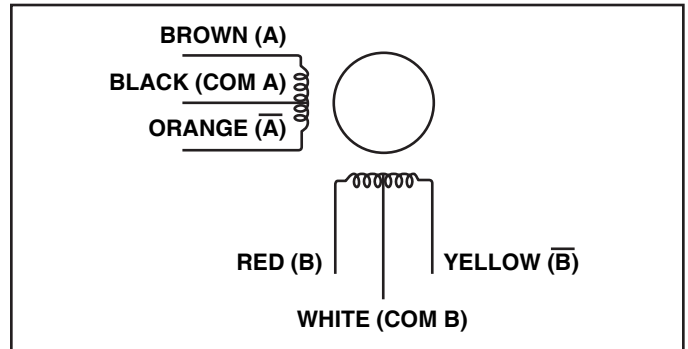


FIGURE 2— Color of internal wiring for SKC motors

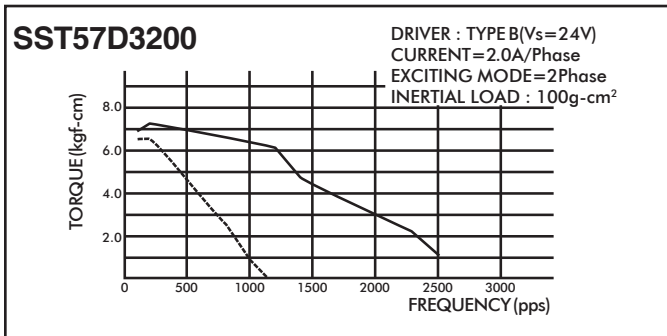


FIGURE 1—Motor torque curve

## PRECAUTIONS

- Make sure the ends of raw wires are not touching each other when turning the handwheel by hand to drive the stepper motor and leadscrew. It can cause the motor to feel rough and hard to turn.
- DC motors generate current when hand cranked that can damage the control unit. When positioning a stepper motor by hand using the handwheel, do not crank faster than about 1 rev/second. For long travels, use the jog mode of your CNC control software.
- Poor connections can cause arcing, which can burn out motors or control chips. Always make sure plugs and connections are fully engaged and making good contact.
- Always turn off driver box power before plugging in or unplugging a stepper motor.