



2-phase stepping motor

42mm sq.(1.65inch sq.)

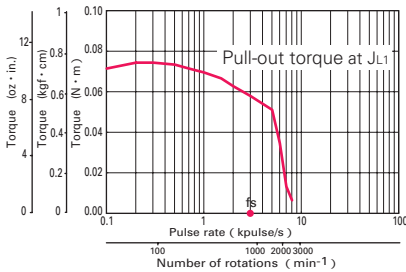
SS242
1.8 ° / step Bipolar winding

Bipolar winding · Lead wire type

Model		Holding torque at 2-phase energization [N · m (oz · in) MIN.]	Rated current A/phase	Wiring resistance /phase	Winding inductance mH/phase	Rotor inertia [×10 ⁻⁴ kg · m ² (oz · in ²)]	Mass (Weight) [kg(lbs)]
Single shaft	Double shafts						
SS2421-5041	-5011	0.083 (11.75)	1	3.5	1.2	0.015 (0.082)	0.07 (0.15)
SS2422-5041	-5011	0.186 (26.33)	1	5.4	2.9	0.028 (0.153)	0.14 (0.31)
SS2423-5041	-5011	0.240 (33.98)	1	7.3	5	0.038 (0.208)	0.20 (0.44)

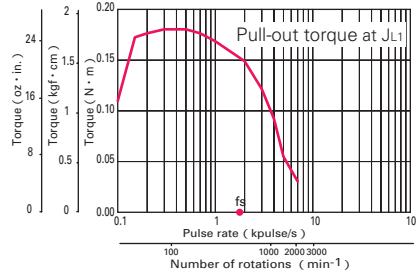
Pulse rate-torque characteristics

SS2421-50



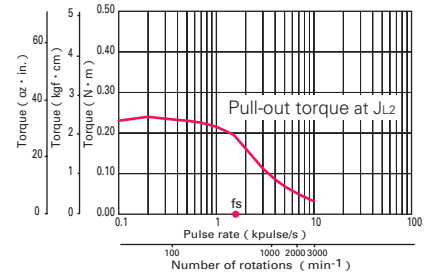
Constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization(full-step)
 $J_{L1} = [0.33 \times 10^{-4} \text{kg} \cdot \text{m}^2 (1.80 \text{ oz} \cdot \text{in}^2)$ inertia of rubber coupling is included]
 $J_{L2} = [0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2 (5.14 \text{ oz} \cdot \text{in}^2)$ inertia of rubber coupling is included]
fs: No load maximum starting pulse rate

SS2422-50



Constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization(full-step)
 $J_{L1} = [0.33 \times 10^{-4} \text{kg} \cdot \text{m}^2 (1.80 \text{ oz} \cdot \text{in}^2)$ inertia of rubber coupling is included]
 $J_{L2} = [0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2 (5.14 \text{ oz} \cdot \text{in}^2)$ inertia of rubber coupling is included]
fs: No load maximum starting pulse rate

SS2423-50



Constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization(full-step)
 $J_{L1} = [0.33 \times 10^{-4} \text{kg} \cdot \text{m}^2 (1.80 \text{ oz} \cdot \text{in}^2)$ inertia of rubber coupling is included]
 $J_{L2} = [0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2 (5.14 \text{ oz} \cdot \text{in}^2)$ inertia of rubber coupling is included]
fs: No load maximum starting pulse rate

The data are measured under the drive condition of our company. The drive torque may vary depending on the accuracy of customer-side equipment.