



2-phase stepping motor

60mm sq.(2.36inch sq.)

103H782
1.8 °/step

Unipolar winding

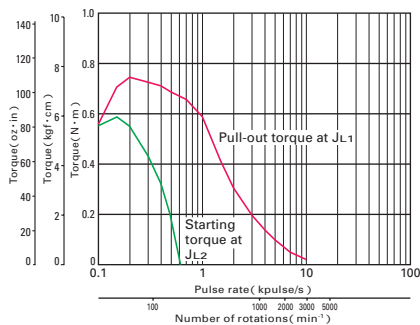
Model		Holding torque at 2-phase energization [N · m (oz · in) MIN.]	Rated current A/phase	Wiring resistance /phase	Winding inductance mH/phase	Rotor inertia [×10 ⁻⁴ kg · m ² (oz · in ²)]	Mass (Weight) [kg(lbs)]
Single shaft	Double shafts						
103H7821-0140	-0110	0.78 (110.5)	1	5.7	8.3	0.275 (1.50)	0.6 (1.32)
103H7821-0440	-0410	0.78 (110.5)	2	1.5	2	0.275 (1.50)	0.6 (1.32)
103H7821-0740	-0710	0.78 (110.5)	3	0.68	0.8	0.275 (1.50)	0.6 (1.32)
103H7822-0140	-0110	1.17 (165.7)	1	6.9	14	0.4 (2.19)	0.77 (1.70)
103H7822-0440	-0410	1.17 (165.7)	2	1.8	3.6	0.4 (2.19)	0.77 (1.70)
103H7822-0740	-0710	1.17 (165.7)	3	0.8	1.38	0.4 (2.19)	0.77 (1.70)
103H7823-0140	-0110	2.1 (297.4)	1	10	21.7	0.84 (4.59)	1.34 (2.95)
103H7823-0440	-0410	2.1 (297.4)	2	2.7	5.6	0.84 (4.59)	1.34 (2.95)
103H7823-0740	-0710	2.1 (297.4)	3	1.25	2.4	0.84 (4.59)	1.34 (2.95)

Bipolar winding

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						
103H7821-1740	-1710	0.88 (124.6)	4	0.35	0.8	0.275 (1.50)	0.6 (1.32)
103H7822-1740	-1710	1.37 (194.0)	4	0.43	1.38	0.4 (2.19)	0.77 (1.70)
103H7823-1740	-1710	2.7 (382.3)	4	0.65	2.4	0.84 (4.59)	1.34 (2.95)

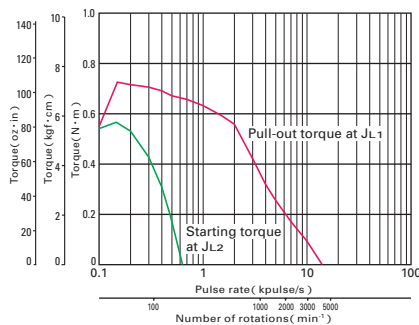
Pulse rate-torque characteristics

103H7821-01



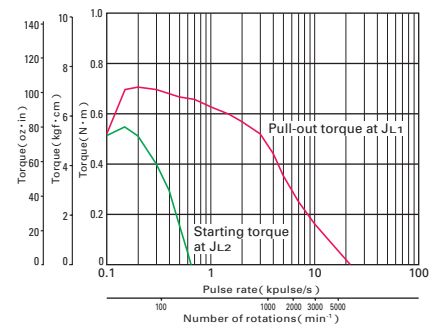
Sanyo constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization (full-step)
J_{L1} = [0.94 × 10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
J_{L2} = [0.8 × 10⁻⁴kg · m² (4.37 oz · in²) use the direct coupling]

103H7821-04



Sanyo constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [0.94 × 10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
J_{L2} = [0.8 × 10⁻⁴kg · m² (4.37 oz · in²) use the direct coupling]

103H7821-07



Sanyo constant current circuit
Source voltage : DC24V · operating current : 3A/phase,
2-phase energization (full-step)
J_{L1} = [0.94 × 10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
J_{L2} = [0.8 × 10⁻⁴kg · m² (4.37 oz · in²) use the direct coupling]

