2-phase stepping motor

60mm sq. (2.36inch sq.)

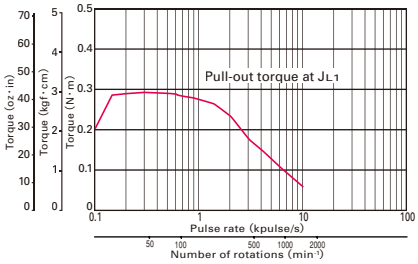
SH160□
0.9° /step

Unipolar winding • Lead wire type

Model		Holding torque at 2-phase energization	Rated current	Wiring resistance	Winding inductance	Rotor inertia	Mass (Weight)
Single shaft	Double shafts	[N · m (oz · in) MIN.]	A/phase	Ω /phase	mH/phase	[×10⁻⁴kg·m²(oz·in²)]	[kg (lbs)]
SH1601-0440	**-0410**	0.57 (80.71)	2	1.35	2	0.24 (1.312)	0.55 (1.21)
SH1602-0440	**-0410**	1.1 (155.77)	2	1.8	3.5	0.4 (2.187)	0.8 (1.76)
SH1603-0440	**-0410**	1.7 (240.74)	2	2.3	4.5	0.75 (4.101)	1.2 (2.64)

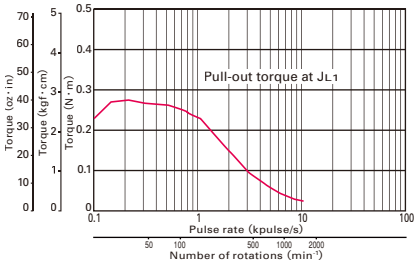
Pulse rate-torque characteristics

● **SH1601-04 □□**



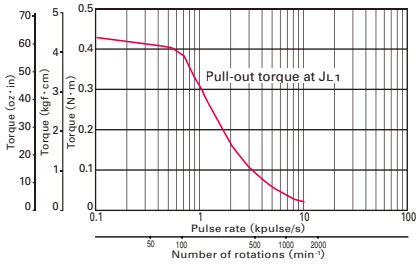
Constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]

● **SH1602-04 □□**



Constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10⁻⁴kg · m² (14.22 oz · in²) use the rubber coupling]

● **SH1603-04 □□**



Constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [7.4x10⁻⁴kg · m² (40.45 oz · in²) use the rubber coupling]

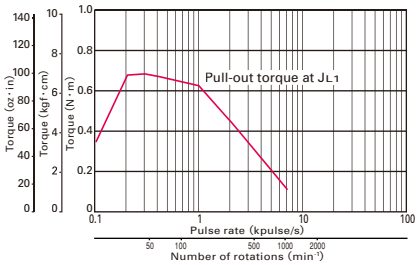
The date are measured under the drive condition of our company. The drive torque may very depending on the accuracy of customer-side equipment.

Bipolar winding • Lead wire type

Model		Holding torque at 2-phase energization	Rated current	Wiring resistance	Winding inductance	Rotor inertia	Mass (Weight)
Single shaft	Double shafts	[N · m (oz · in) MIN.]	A/phase	Ω /phase	mH/phase	[×10⁻⁴kg·m²(oz·in²)]	[kg (lbs)]
SH1601-5240	**-5210**	0.69 (97.7)	2	1.2	3.5	0.24 (1.31)	0.55 (1.21)
SH1602-5240	**-5210**	1.28 (181.2)	2	1.65	6.1	0.4 (2.19)	0.8 (1.76)
SH1603-5240	**-5210**	2.15 (304.4)	2	2.3	8.8	0.75 (4.10)	1.2 (2.65)

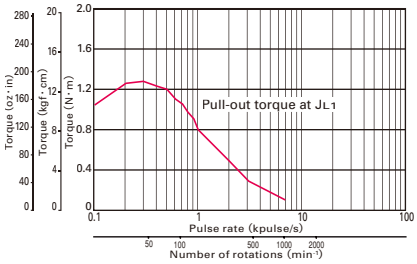
Pulse rate-torque characteristics

● **SH1601-52 □□**



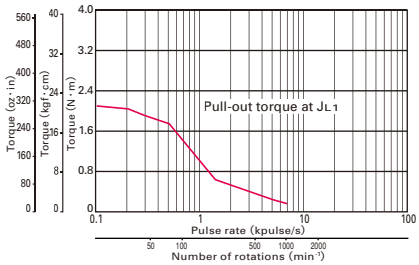
Constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
J_{L2} = [2.6x10⁻⁴kg · m² (14.22 oz · in²) use the rubber coupling]
J_{L3} = [7.4x10⁻⁴kg · m² (40.46 oz · in²) use the rubber coupling]

● **SH1602-52 □□**



Constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
J_{L2} = [2.6x10⁻⁴kg · m² (14.22 oz · in²) use the rubber coupling]
J_{L3} = [7.4x10⁻⁴kg · m² (40.46 oz · in²) use the rubber coupling]

● **SH1603-52 □□**



Constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
J_{L2} = [2.6x10⁻⁴kg · m² (14.22 oz · in²) use the rubber coupling]
J_{L3} = [7.4x10⁻⁴kg · m² (40.46 oz · in²) use the rubber coupling]

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