2-phase stepping motor

56mm sq. (2.20inch sq.)

103H712 □
1.8° /step

Unipolar winding • Lead wire type

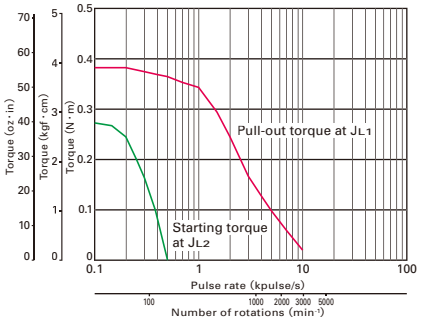
Model		Holding torque at 2-phase energization	Rated current	Wiring resistance	Winding inductance	Rotor inertia	Mass (Weight)
Single shaft	Double shafts	[N · m (oz · in) MIN.]	A/phase	Ω /phase	mH/phase	[×10⁻⁴kg·m²(oz·in²)]	[kg (lbs)]
103H7121-0140	**-0110**	0.39 (55.2)	1	4.8	8	0.1 (0.55)	0.47 (1.04)
103H7121-0440	**-0410**	0.39 (55.2)	2	1.25	1.9	0.1 (0.55)	0.47 (1.04)
103H7121-0740	**-0710**	0.39 (55.2)	3	0.6	0.8	0.1 (0.55)	0.47 (1.04)
103H7123-0140	**-0110**	0.83 (117.)	1	6.7	15	0.21 (1.15)	0.65 (1.43)
103H7123-0440	**-0410**	0.83 (117.5)	2	1.6	3.8	0.21 (1.15)	0.65 (1.43)
103H7123-0740	**-0710**	0.78 (110.5)	3	0.77	1.58	0.21 (1.15)	0.65 (1.43)
103H7124-0140	**-0110**	0.98 (138.8)	1	7	14.5	0.245 (1.34)	0.8 (1.76)
103H7124-0440	**-0410**	0.98 (138.8)	2	1.7	3.1	0.245 (1.34)	0.8 (1.76)
103H7124-0740	**-0710**	0.98 (138.8)	3	0.74	1.4	0.245 (1.34)	0.8 (1.76)
103H7126-0140	**-0110**	1.27 (179.8)	1	8.6	19	0.36 (1.97)	0.98 (2.16)
103H7126-0440	**-0410**	1.27 (179.8)	2	2	4.5	0.36 (1.97)	0.98 (2.16)
103H7126-0740	**-0710**	1.27 (179.8)	3	0.9	2.2	0.36 (1.97)	0.98 (2.16)

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)]
103H7121-5640	**-5610**	0.55 (77.9)	1	4.3	14.5	0.1 (0.55)	0.47 (1.04)
103H7121-5740	**-5710**	0.55 (77.9)	2	1.1	3.7	0.1 (0.55)	0.47 (1.04)
103H7121-5840	**-5810**	0.55 (77.9)	3	0.54	1.74	0.1 (0.55)	0.47 (1.04)
103H7123-5640	**-5610**	1.0 (141.6)	1	5.7	29.4	0.21 (1.15)	0.65 (1.43)
103H7123-5740	**-5710**	1.0 (141.6)	2	1.5	7.5	0.21 (1.15)	0.65 (1.43)
103H7123-5840	**-5810**	1.0 (141.6)	3	0.7	3.5	0.21 (1.15)	0.65 (1.43)
103H7126-5640	**-5610**	1.6 (226.6)	1	7.7	34.6	0.36 (1.97)	0.98 (2.16)
103H7126-5740	**-5710**	1.6 (226.6)	2	2	9.1	0.36 (1.97)	0.98 (2.16)
103H7126-5840	**-5810**	1.6 (226.6)	3	0.94	4	0.36 (1.97)	0.98 (2.16)
103H7128-5640	**-5610**	2.0 (283.2)	1	8.9	40.1	0.49 (2.68)	1.3 (2.87)
103H7128-5740	**-5710**	2.0 (283.2)	2	2.3	10.4	0.49 (2.68)	1.3 (2.87)
103H7128-5840	**-5810**	2.0 (283.2)	3	1.03	4.3	0.49 (2.68)	1.3 (2.87)

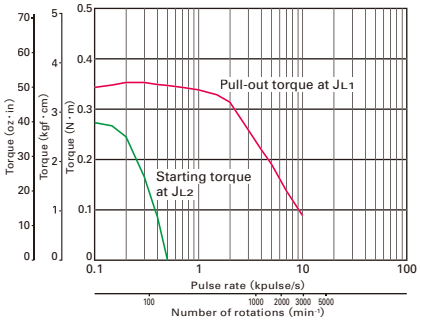
Pulse rate-torque characteristics

● 103H7121-01 □□



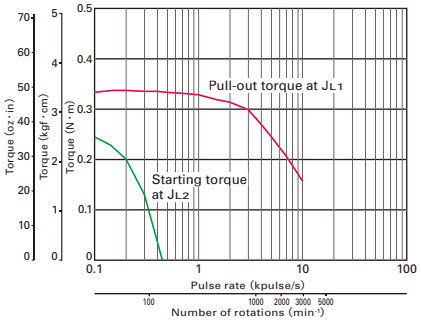
Constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10^{-4}kg · m^2 (5.14 oz · in^2) use the rubber coupling]
J_{L2} = [0.8x10^{-4}kg · m^2 (4.37 oz · in^2) use the direct coupling]

● 103H7121-04 □□



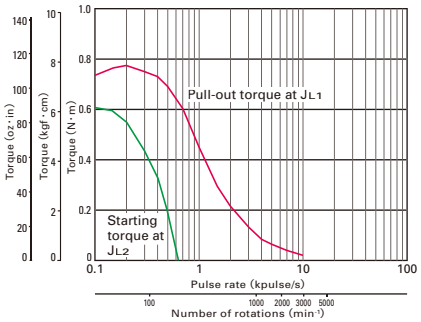
Constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10^{-4}kg · m^2 (5.14 oz · in^2) use the rubber coupling]
J_{L2} = [0.8x10^{-4}kg · m^2 (4.37 oz · in^2) use the direct coupling]

● 103H7121-07 □□



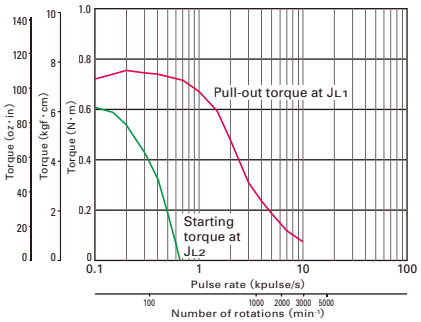
Constant current circuit
Source voltage : DC24V · operating current : 3A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10^{-4}kg · m^2 (5.14 oz · in^2) use the rubber coupling]
J_{L2} = [0.8x10^{-4}kg · m^2 (4.37 oz · in^2) use the direct coupling]

● 103H7123-01 □□



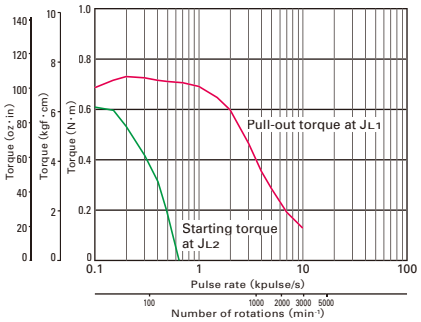
Constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10^{-4}kg · m^2 (5.14 oz · in^2) use the rubber coupling]
J_{L2} = [0.8x10^{-4}kg · m^2 (4.37 oz · in^2) use the direct coupling]

● 103H7123-04 □□



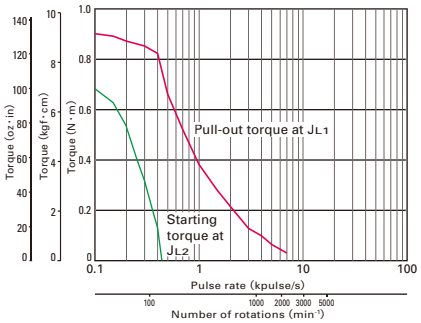
Constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10^{-4}kg · m^2 (5.14 oz · in^2) use the rubber coupling]
J_{L2} = [0.8x10^{-4}kg · m^2 (4.37 oz · in^2) use the direct coupling]

● 103H7123-07 □□



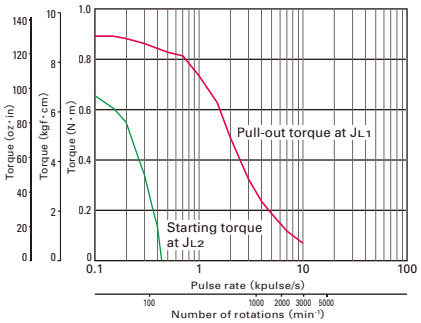
Constant current circuit
Source voltage : DC24V · operating current : 3A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10^{-4}kg · m^2 (5.14 oz · in^2) use the rubber coupling]
J_{L2} = [0.8x10^{-4}kg · m^2 (4.37 oz · in^2) use the direct coupling]

● 103H7124-01 □□



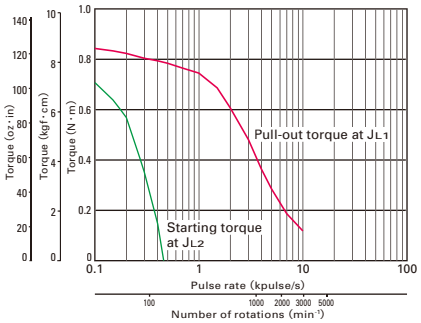
Constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the rubber coupling]
J_{L2} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the direct coupling]

● 103H7124-04 □□



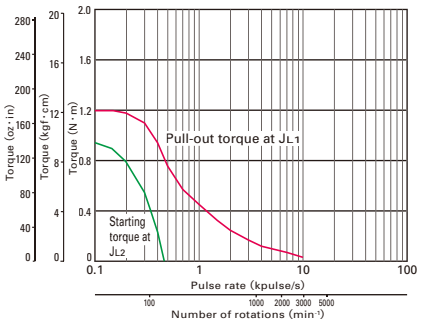
Constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the rubber coupling]
J_{L2} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the direct coupling]

● 103H7124-07 □□



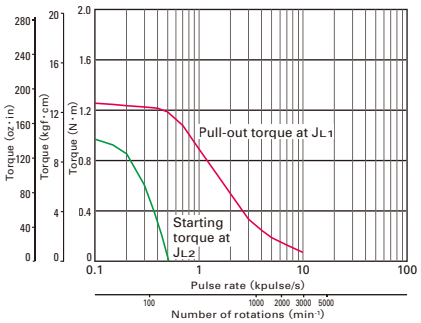
Constant current circuit
Source voltage : DC24V · operating current : 3A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the rubber coupling]
J_{L2} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the direct coupling]

● 103H7126-01 □□



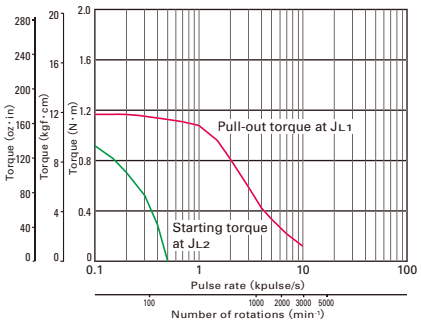
Constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the rubber coupling]
J_{L2} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the direct coupling]

● 103H7126-04 □□



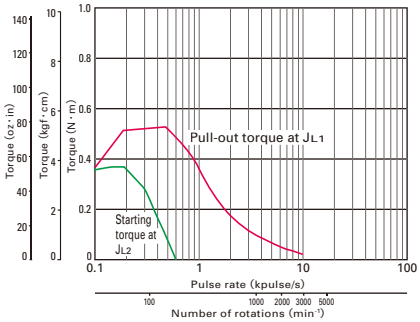
Constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the rubber coupling]
J_{L2} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the direct coupling]

● 103H7126-07 □□



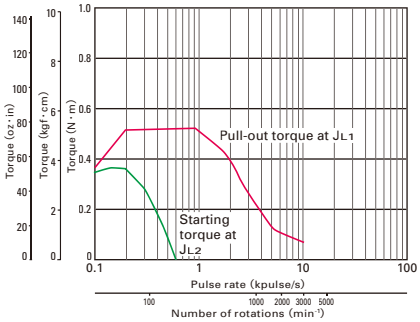
Constant current circuit
Source voltage : DC24V · operating current : 3A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the rubber coupling]
J_{L2} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the direct coupling]

● 103H7121-56 □□



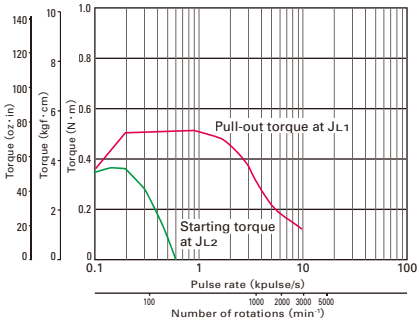
Constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10^{-4}kg · m^2 (5.14 oz · in^2) use the rubber coupling]
J_{L2} = [0.8x10^{-4}kg · m^2 (4.37 oz · in^2) use the direct coupling]

● 103H7121-57 □□



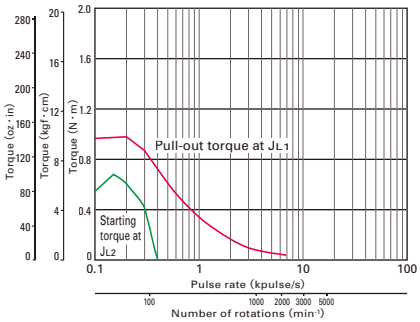
Constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10^{-4}kg · m^2 (5.14 oz · in^2) use the rubber coupling]
J_{L2} = [0.8x10^{-4}kg · m^2 (4.37 oz · in^2) use the direct coupling]

● 103H7121-58 □□



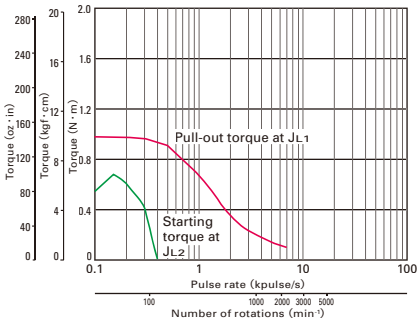
Constant current circuit
Source voltage : DC24V · operating current : 3A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10^{-4}kg · m^2 (5.14 oz · in^2) use the rubber coupling]
J_{L2} = [0.8x10^{-4}kg · m^2 (4.37 oz · in^2) use the direct coupling]

● 103H7123-56 □□



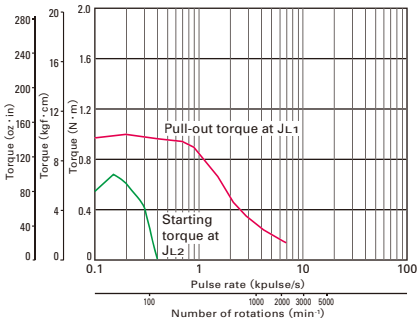
Constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the rubber coupling]
J_{L2} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the direct coupling]

● 103H7123-57 □□



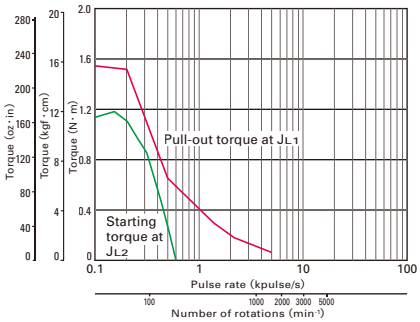
Constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the rubber coupling]
J_{L2} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the direct coupling]

● 103H7123-58 □□



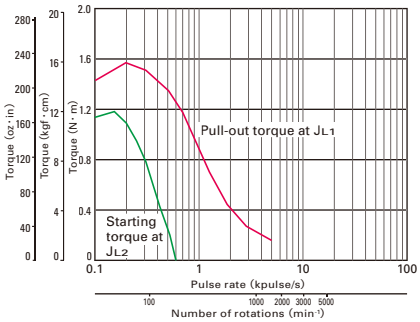
Constant current circuit
Source voltage : DC24V · operating current : 3A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the rubber coupling]
J_{L2} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the direct coupling]

● 103H7126-56 □□



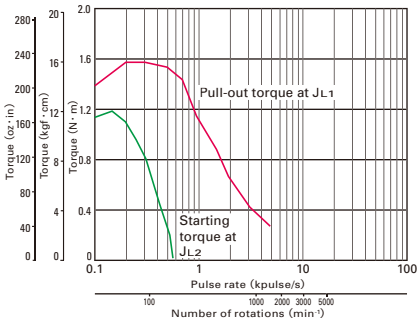
Constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the rubber coupling]
J_{L2} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the direct coupling]

● 103H7126-57 □□



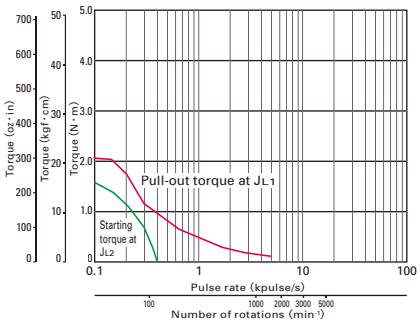
Constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the rubber coupling]
J_{L2} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the direct coupling]

● 103H7126-58 □□



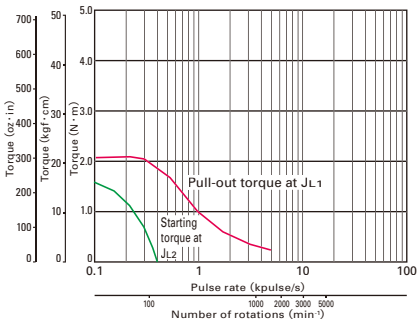
Constant current circuit
Source voltage : DC24V · operating current : 3A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the rubber coupling]
J_{L2} = [2.6x10^{-4}kg · m^2 (14.22 oz · in^2) use the direct coupling]

● 103H7128-56 □□



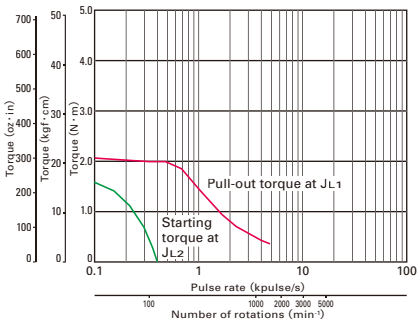
Constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization (full-step)
J_{L1} = [7.4x10^{-4}kg · m^2 (40.46 oz · in^2) use the rubber coupling]
J_{L2} = [7.4x10^{-4}kg · m^2 (40.46 oz · in^2) use the direct coupling]

● 103H7128-57 □□



Constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization (full-step)
J_{L1} = [7.4x10^{-4}kg · m^2 (40.46 oz · in^2) use the rubber coupling]
J_{L2} = [7.4x10^{-4}kg · m^2 (40.46 oz · in^2) use the direct coupling]

● 103H7128-58 □□



Constant current circuit
Source voltage : DC24V · operating current : 3A/phase,
2-phase energization (full-step)
J_{L1} = [7.4x10^{-4}kg · m^2 (40.46 oz · in^2) use the rubber coupling]
J_{L2} = [7.4x10^{-4}kg · m^2 (40.46 oz · in^2) use the direct 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.

2-phase stepping motor

56mm sq. (2.20inch sq.)

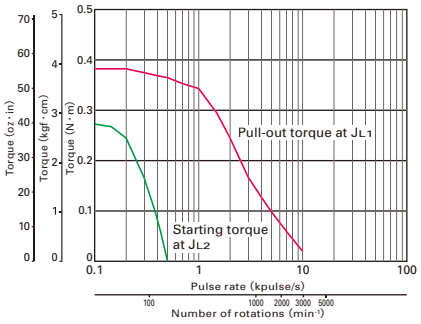
103H712 □
CE marking
1.8° /step

Unipolar winding

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)]
103H7121-6140	**-6110**	0.39 (55.2)	1	4.8	8	0.1 (0.55)	0.47 (1.04)
103H7121-6740	**-6710**	0.39 (55.2)	3	0.6	0.8	0.1 (0.55)	0.47 (1.04)
103H7123-6140	**-6110**	0.83 (117.5)	1	6.7	15	0.21 (1.15)	0.65 (1.43)
103H7123-6740	**-6710**	0.78 (110.5)	3	0.77	1.58	0.21 (1.15)	0.65 (1.43)
103H7126-6140	**-6110**	1.27 (179.8)	1	8.6	19	0.36 (1.97)	0.98 (2.16)
103H7126-6740	**-6710**	1.27 (179.8)	3	0.9	2.2	0.36 (1.97)	0.98 (2.16)

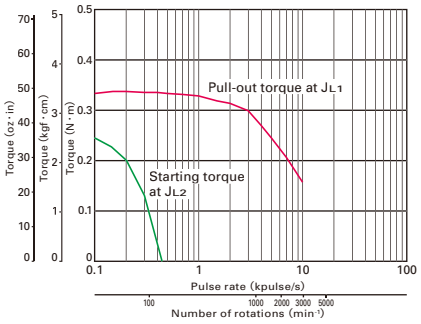
Pulse rate-torque characteristics

● 103H7121-61 □□



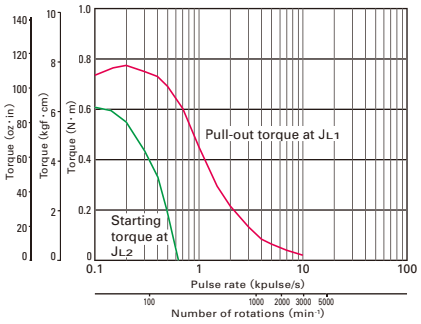
Constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
J_{L2} = [0.8x10⁻⁴kg · m² (4.37 oz · in²) use the direct coupling]

● 103H7121-67 □□



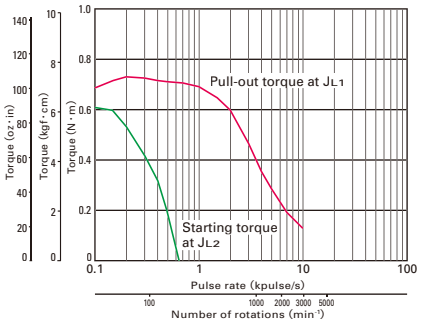
Constant current circuit
Source voltage : DC24V · operating current : 3A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
J_{L2} = [0.8x10⁻⁴kg · m² (4.37 oz · in²) use the direct coupling]

● 103H7123-61 □□



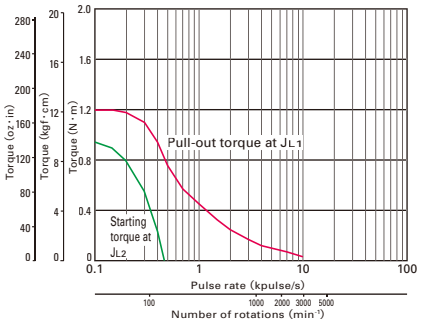
Constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
J_{L2} = [0.8x10⁻⁴kg · m² (4.37 oz · in²) use the direct coupling]

● 103H7123-67 □□



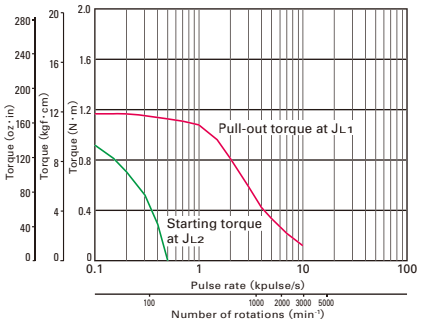
Constant current circuit
Source voltage : DC24V · operating current : 3A/phase,
2-phase energization (full-step)
J_{L1} = [0.94x10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
J_{L2} = [0.8x10⁻⁴kg · m² (4.37 oz · in²) use the direct coupling]

● 103H7126-61 □□



Constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10⁻⁴kg · m² (14.22 oz · in²) use the rubber coupling]
J_{L2} = [2.6x10⁻⁴kg · m² (14.22 oz · in²) use the direct coupling]

● 103H7126-67 □□



Constant current circuit
Source voltage : DC24V · operating current : 3A/phase,
2-phase energization (full-step)
J_{L1} = [2.6x10⁻⁴kg · m² (14.22 oz · in²) use the rubber coupling]
J_{L2} = [2.6x10⁻⁴kg · m² (14.22 oz · in²) use the direct coupling]