Stepping Motor

56mm sq. (2.20inch sq.)
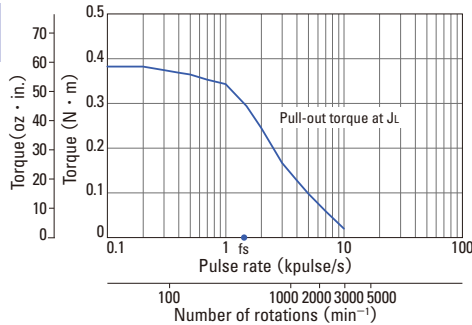
1.8° /step

Unipolar winding · Lead wire type
Bipolar winding · Lead wire type ▶ P.40

Unipolar winding • Lead wire type

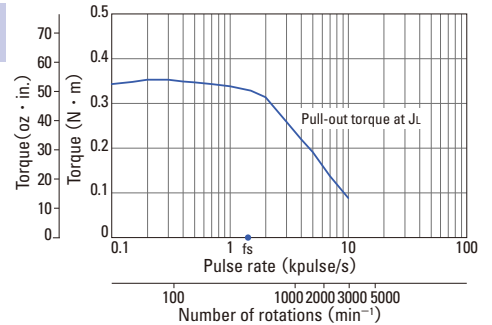| Model number		Holding torque at 2-phase energization	Rated current	Wiring resistance	Winding inductance	Rotor inertia	Mass (Weight)
Single shaft	Double shafts	[N · m (oz · in) MIN.]	A/phase	Ω /phase	mH/phase	[×10⁻⁴kg · m² (oz · in²)]	[kg (lbs)]
103H7121-0140	103H7121-0110	0.39 (55.2)	1	4.8	8	0.1 (0.55)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

■ Characteristics diagram

**103H7121-0140
103H7121-0110**
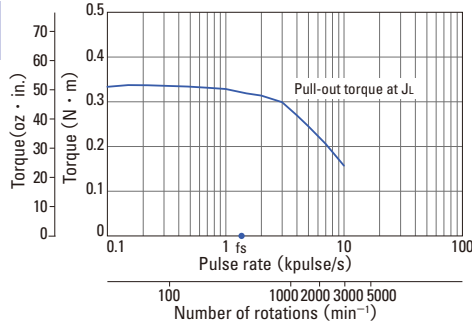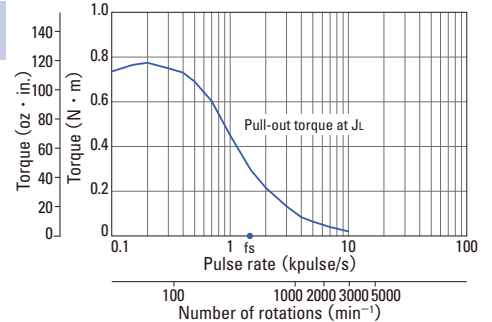

Constant current circuit
Source voltage : DC24V · Operating current : 1A/phase,
2-phase energization (full-step)
J_L=[0.94 × 10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
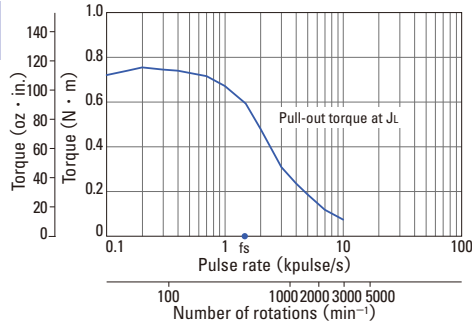fs: Maximum self-start frequency when not loaded

**103H7121-0440
103H7121-0410**

Constant current circuit
Source voltage : DC24V · Operating current : 2A/phase,
2-phase energization (full-step)
J_L=[0.94 × 10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
fs: Maximum self-start frequency when not loaded

**103H7121-0740
103H7121-0710**

Constant current circuit
Source voltage : DC24V · Operating current : 3A/phase,
2-phase energization (full-step)
J_L=[0.94 × 10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
fs: Maximum self-start frequency when not loaded

**103H7123-0140
103H7123-0110**

Constant current circuit
Source voltage : DC24V · Operating current : 1A/phase,
2-phase energization (full-step)
J_L=[0.94 × 10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
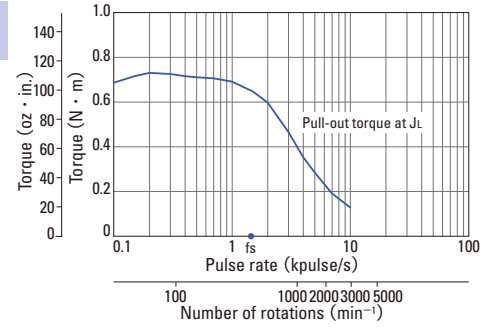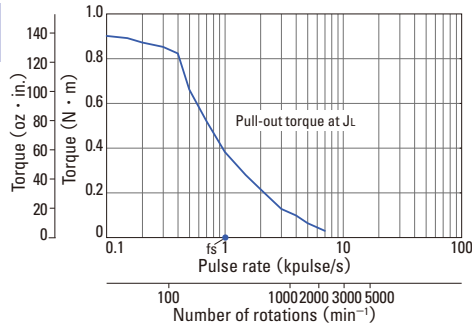fs: Maximum self-start frequency when not loaded
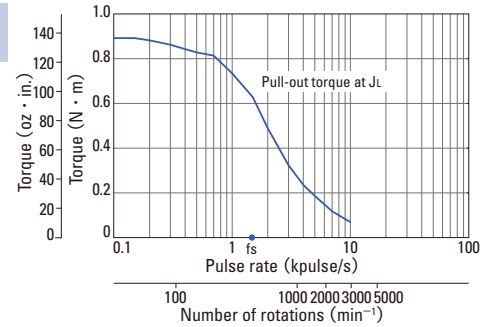
■ Characteristics diagram

103H7123-0440
103H7123-0410

Constant current circuit
Source voltage : DC24V · Operating current : 2A/phase,
2-phase energization (full-step)
J_L=[0.94 × 10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
fs: Maximum self-start frequency when not loaded

103H7123-0740
103H7123-0710

Constant current circuit
Source voltage : DC24V · Operating current : 3A/phase,
2-phase energization (full-step)
J_L=[0.94 × 10⁻⁴kg · m² (5.14 oz · in²) use the rubber coupling]
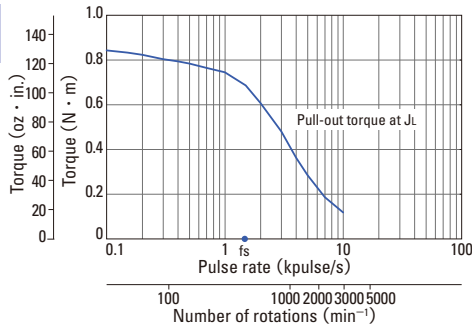fs: Maximum self-start frequency when not loaded

103H7124-0140
103H7124-0110

Constant current circuit
Source voltage : DC24V · Operating current : 1A/phase,
2-phase energization (full-step)
J_L=[2.6 × 10⁻⁴kg · m² (14.22 oz · in²) use the rubber coupling]
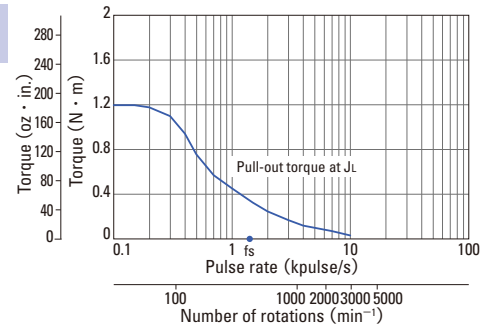fs: Maximum self-start frequency when not loaded

103H7124-0440
103H7124-0410

Constant current circuit
Source voltage : DC24V · Operating current : 2A/phase,
2-phase energization (full-step)
J_L=[2.6 × 10⁻⁴kg · m² (14.22 oz · in²) use the rubber coupling]
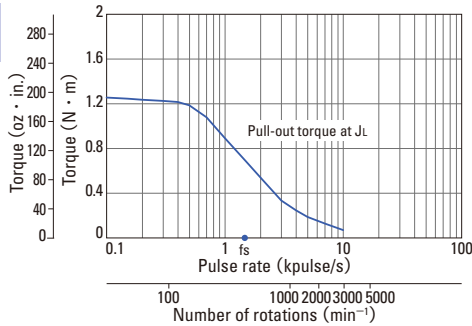fs: Maximum self-start frequency when not loaded

103H7124-0740
103H7124-0710

Constant current circuit
Source voltage : DC24V · Operating current : 3A/phase,
2-phase energization (full-step)
J_L=[2.6 × 10⁻⁴kg · m² (14.22 oz · in²) use the rubber coupling]
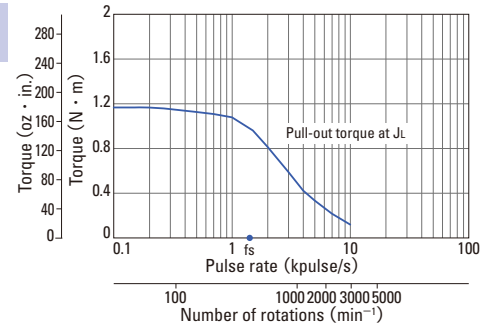fs: Maximum self-start frequency when not loaded

103H7126-0140
103H7126-0110

Constant current circuit
Source voltage : DC24V · Operating current : 1A/phase,
2-phase energization (full-step)
J_L=[2.6 × 10⁻⁴kg · m² (14.22 oz · in²) use the rubber coupling]
fs: Maximum self-start frequency when not loaded

103H7126-0440
103H7126-0410

Constant current circuit
Source voltage : DC24V · Operating current : 2A/phase,
2-phase energization (full-step)
J_L=[2.6 × 10⁻⁴kg · m² (14.22 oz · in²) use the rubber coupling]
fs: Maximum self-start frequency when not loaded

103H7126-0740
103H7126-0710

Constant current circuit
Source voltage : DC24V · Operating current : 3A/phase,
2-phase energization (full-step)
J_L=[2.6 × 10⁻⁴kg · m² (14.22 oz · in²) use the rubber coupling]
fs: Maximum self-start frequency when not loaded