



2-phase Stepping Motor

56mm sq. 103H712 □
(2.20inch sq.) 1.8°/step

Recommendable Driver
Refer to the page 7,17,27 and 45.

Specifications

Unipolar winding

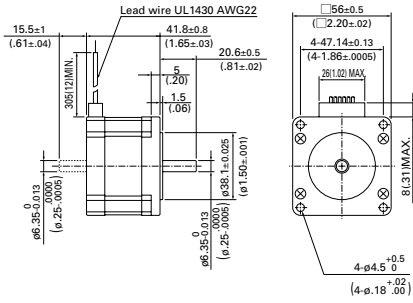
Model		Holding torque at 2-phase energization	Rated current	Resistance	Inductance	Rotor inertia	Mass(Weight)
Single shaft	Double shaft	N·m (oz·in) MIN.	A/phase	Ω/phase	mH/phase	$\times 10^{-4}$ kg·m ² (oz·in ²)	kg(lbs)
103H7121-0140	-0110	0.39(55.2)	1	4.8	8	0.1(0.55)	0.47(1.04)
103H7121-0440	-0410	0.39(55.2)	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	12.5	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

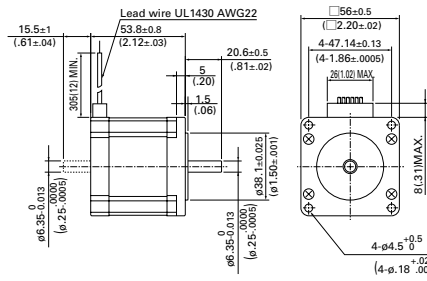
Model		Holding torque at 2-phase energization	Rated current	Resistance	Inductance	Rotor inertia	Mass(Weight)
Single shaft	Double shaft	N·m (oz·in) MIN.	A/phase	Ω/phase	mH/phase	$\times 10^{-4}$ kg·m ² (oz·in ²)	kg(lbs)
103H7121-5040	-5010	0.39(55.2)	2	0.65	1.9	0.1(0.55)	0.47(1.04)
103H7121-5640	-5610	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)
103H7123-5040	-5010	0.83(117.5)	2	0.8	3.8	0.21(1.15)	0.65(1.43)
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)
103H7126-5040	-5010	1.27(179.8)	2	1.05	4.5	0.36(1.97)	0.98(2.16)
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(283.2)	1	8.9	40.1	0.49(2.68)	1.3(2.87)
103H7128-5740	-5710	2(283.2)	2	2.3	10.4	0.49(2.68)	1.3(2.87)
103H7128-5840	-5810	2(283.2)	3	1.03	4.3	0.49(2.68)	1.3(2.87)

Dimensions [Unit:mm(inch)]

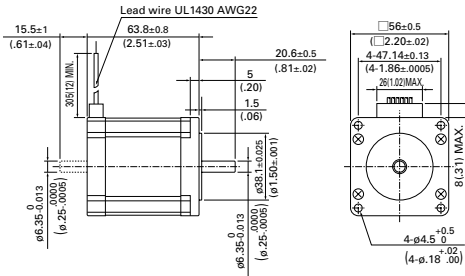
103H7121-0140/0440/0740/5040 (Single shaft)
103H7121-0110/0410/0710/5010 (Double shaft)



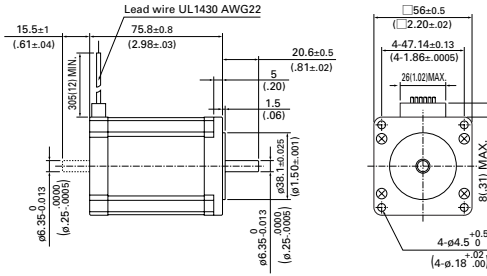
103H7123-0140/0440/0740/5040 (Single shaft)
103H7123-0110/0410/0710/5010 (Double shaft)



103H7124-0140/0440/0740 (Single shaft)
103H7124-0110/0410/0710 (Double shaft)

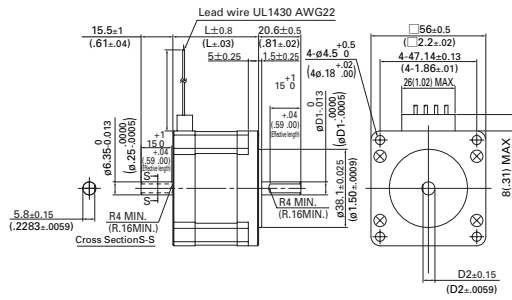


103H7126-0140/0440/0740/5040 (Single shaft)
103H7126-0110/0410/0710/5010 (Double shaft)



Bipolar winding

103H712 □-5 □ 40 (Single shaft)
103H712 □-5 □ 10 (Double shaft)



Model	L	D1	D2
103H7121-□□□□	41.8 (1.65)	6.35 (.25)	5.8 (.23)
103H7123-□□□□	53.8 (2.12)		
103H7126-□□□□	75.8 (2.98)	8 (.3149)	7.5 (.30)
103H7128-□□□□	94.8 (3.73)		

39mm(1.54)/0.9
42mm(1.65)/0.9
28mm(1.10)/1.8
35mm(1.38)/1.8
42mm(1.65)/1.8
50mm(1.97)/1.8
56mm(2.20)/1.8
60mm(2.36)/1.8
86mm(3.39)/1.8
106mm(4.17)/1.8
56mm(2.20)/CE
86mm(3.39)/CE
106mm(4.17)/CE
Specifications of 2-phase stepping motor
In-vacuum stepping motor
2-phase synchronous motor