



2-phase stepping motor

56mm sq.(2.20inch sq.)

103H712
1.8 °/step

Unipolar winding

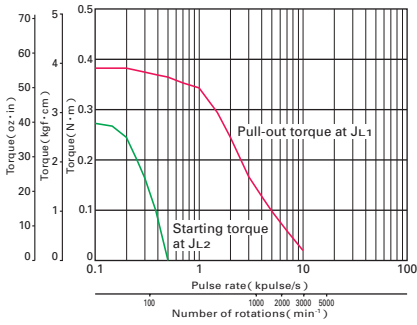
Model		Holding torque at 2-phase energization [N · m (oz · in) MIN.]	Rated current		Winding inductance mH/phase	Rotor inertia [$\times 10^{-4}$ kg · m ² (oz · in ²)]	Mass (Weight) [kg(lbs)]
Single shaft	Double shafts		A/phase	/phase			
103H7121-0140	-0110	0.39 (55.2)	1	4.8	8	0.1 (0.55)	0.47 (1.04)
103H7121-0440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

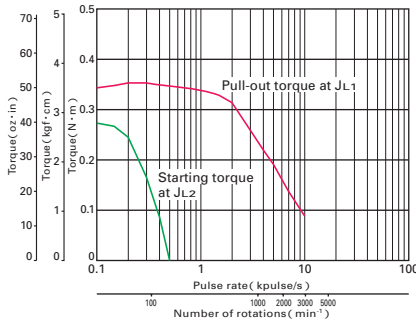
Pulse rate-torque characteristics

103H7121-01



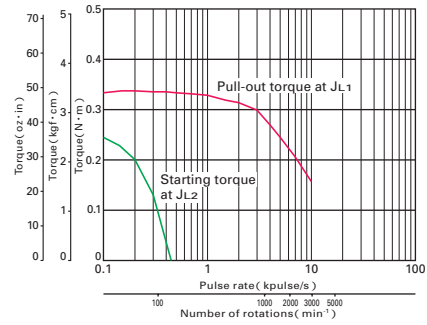
Sanyo constant current circuit
 Source voltage : DC24V · operating current : 1A/phase,
 2-phase energization (full-step)
 $J_{L1} = [0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2 (5.14 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [0.8 \times 10^{-4} \text{kg} \cdot \text{m}^2 (4.37 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

103H7121-04



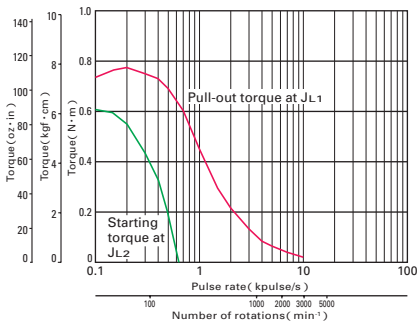
Sanyo constant current circuit
 Source voltage : DC24V · operating current : 2A/phase,
 2-phase energization (full-step)
 $J_{L1} = [0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2 (5.14 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [0.8 \times 10^{-4} \text{kg} \cdot \text{m}^2 (4.37 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

103H7121-07



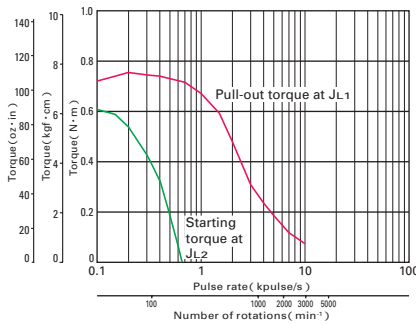
Sanyo constant current circuit
 Source voltage : DC24V · operating current : 3A/phase,
 2-phase energization (full-step)
 $J_{L1} = [0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2 (5.14 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [0.8 \times 10^{-4} \text{kg} \cdot \text{m}^2 (4.37 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

103H7123-01



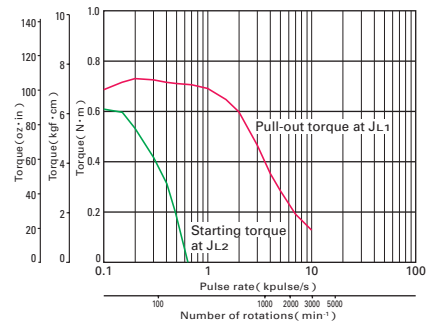
Sanyo constant current circuit
 Source voltage : DC24V · operating current : 1A/phase,
 2-phase energization (full-step)
 $J_{L1} = [0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2 (5.14 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [0.8 \times 10^{-4} \text{kg} \cdot \text{m}^2 (4.37 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

103H7123-04



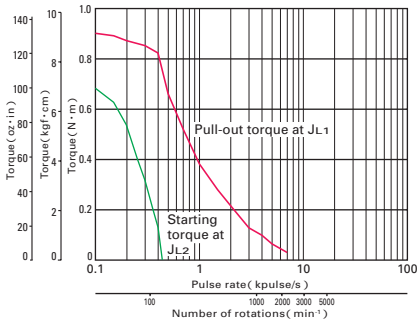
Sanyo constant current circuit
 Source voltage : DC24V · operating current : 2A/phase,
 2-phase energization (full-step)
 $J_{L1} = [0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2 (5.14 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [0.8 \times 10^{-4} \text{kg} \cdot \text{m}^2 (4.37 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

103H7123-07



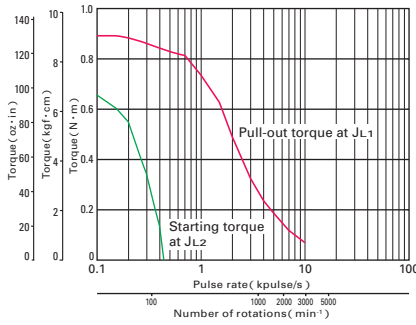
Sanyo constant current circuit
 Source voltage : DC24V · operating current : 3A/phase,
 2-phase energization (full-step)
 $J_{L1} = [0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2 (5.14 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [0.8 \times 10^{-4} \text{kg} \cdot \text{m}^2 (4.37 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

103H7124-01



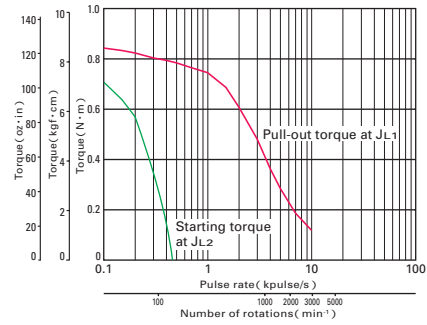
Sanyo constant current circuit
 Source voltage : DC24V · operating current : 1A/phase,
 2-phase energization (full-step)
 $J_{L1} = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

103H7124-04



Sanyo constant current circuit
 Source voltage : DC24V · operating current : 2A/phase,
 2-phase energization (full-step)
 $J_{L1} = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

103H7124-07



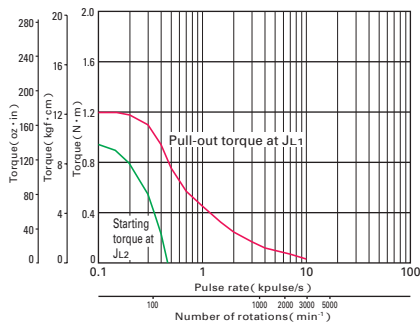
Sanyo constant current circuit
 Source voltage : DC24V · operating current : 3A/phase,
 2-phase energization (full-step)
 $J_{L1} = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

2-phase stepping motor

56mm sq.(2.20inch sq.)

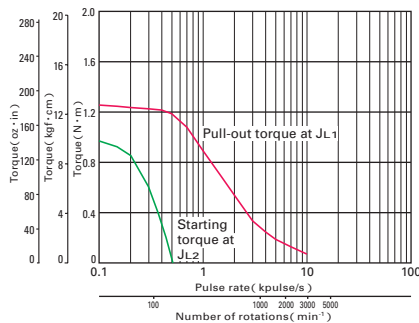
Pulse rate-torque characteristics

103H7126-01



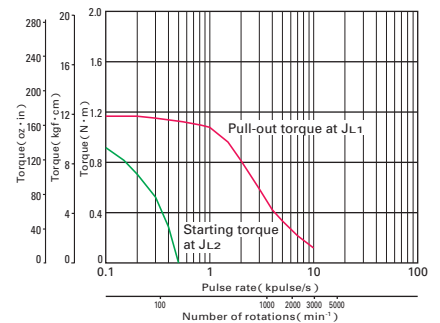
Sanyo constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization(full-step)
 $J_{L1} = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

103H7126-04



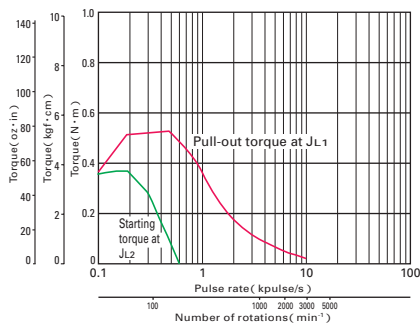
Sanyo constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization(full-step)
 $J_{L1} = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

103H7126-07



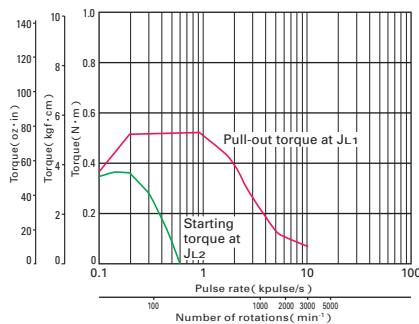
Sanyo constant current circuit
Source voltage : DC24V · operating current : 3A/phase,
2-phase energization(full-step)
 $J_{L1} = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

103H7121-56



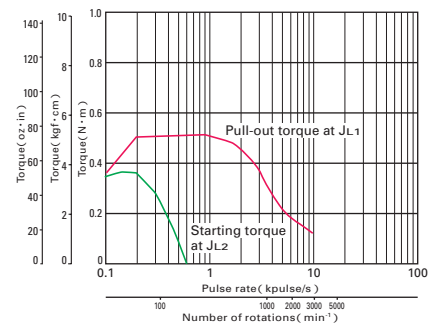
Sanyo constant current circuit
Source voltage : DC24V · operating current : 1A/phase,
2-phase energization(full-step)
 $J_{L1} = [0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2 (5.14 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [0.8 \times 10^{-4} \text{kg} \cdot \text{m}^2 (4.37 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

103H7121-57



Sanyo constant current circuit
Source voltage : DC24V · operating current : 2A/phase,
2-phase energization(full-step)
 $J_{L1} = [0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2 (5.14 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [0.8 \times 10^{-4} \text{kg} \cdot \text{m}^2 (4.37 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

103H7121-58



Sanyo constant current circuit
Source voltage : DC24V · operating current : 3A/phase,
2-phase energization(full-step)
 $J_{L1} = [0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2 (5.14 \text{oz} \cdot \text{in}^2) \text{ use the rubber coupling }]$
 $J_{L2} = [0.8 \times 10^{-4} \text{kg} \cdot \text{m}^2 (4.37 \text{oz} \cdot \text{in}^2) \text{ use the direct coupling }]$

