



## 5-phase stepping motor

**60mm sq.** 103H785□-□□□□  
0.72°/step

### ●Applicable drivers

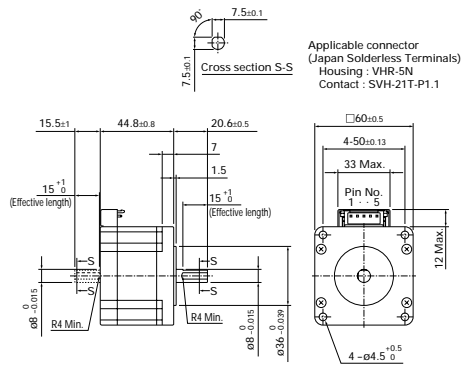


## Specifications

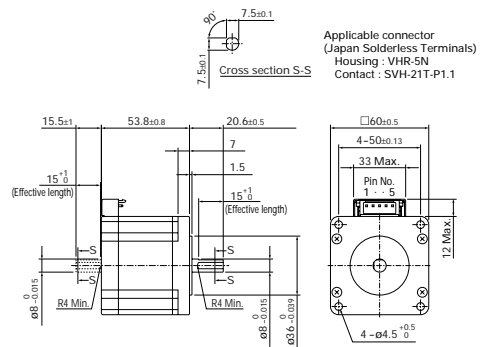
Model number		Holding torque at 5-phase energization N.m or more	Rated current A/phase	Wiring resistance Ω/phase	Wiring inductance mH/phase	Rotor inertia x 10 <sup>-4</sup> kg·m <sup>2</sup>	Weight kg
Single-axis	Dual-axis						
103H7851-7051	-7021	0.65	0.75	2.75	4.75	0.275	0.6
103H7851-8051	-8021	0.65	1.5	0.64	1.2	0.275	0.6
103H7852-7051	-7021	0.98	0.75	3.4	7.75	0.4	0.78
103H7852-8051	-8021	0.98	1.5	0.8	2	0.4	0.78
103H7853-7051	-7021	1.86	0.75	5.5	15	0.84	1.36
103H7853-8051	-8021	1.86	1.5	1.28	3.85	0.84	1.36

## Dimensions (unit: mm)

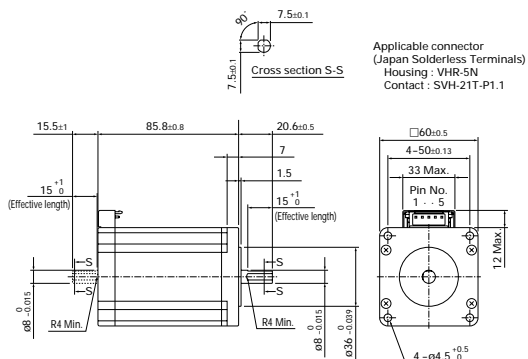
103H7851-7051/8051 (Single shaft)  
103H7851-7021/8021 (Double shaft)



103H7852-7051/8051 (Single shaft)  
103H7852-7021/8021 (Double shaft)

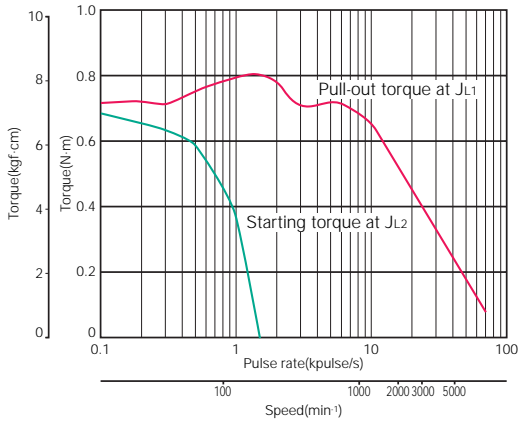


103H7853-7051/8051 (Single shaft)  
103H7853-7021/8021 (Double shaft)



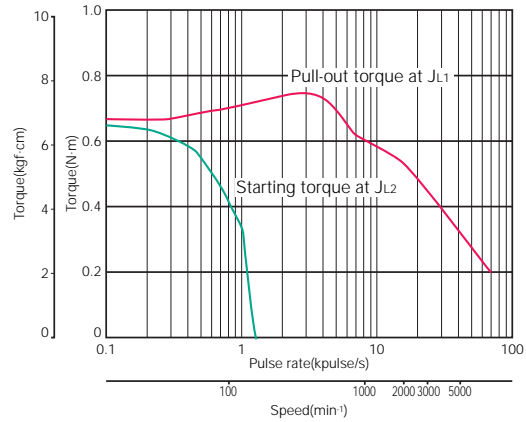
# Pulse rate-torque characteristics

## ●103H7851-7051



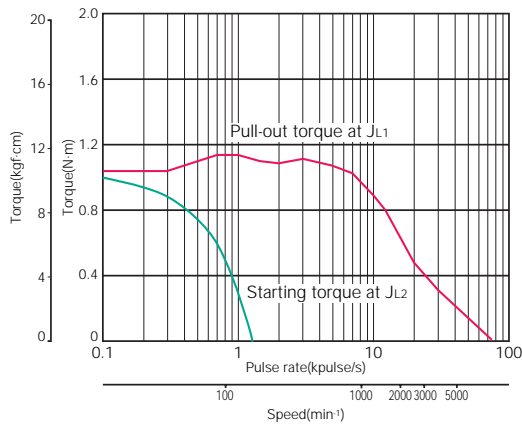
Sanyo constant current circuit  
 Source voltage : 100V AC · Winding current : 0.75A/phase  
 5-phase excitation (Full step)  
 $J_{L1}=0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With rubber coupling)  
 $J_{L2}=0.8 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With direct-coupled coupling)

## ●103H7851-8051



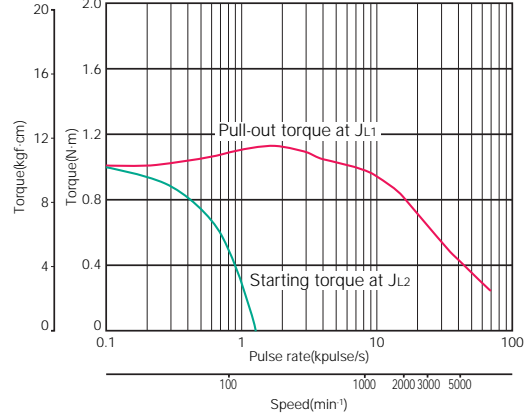
Sanyo constant current circuit  
 Source voltage : 100V AC · Winding current : 1.5A/phase  
 5-phase excitation (Full step)  
 $J_{L1}=0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With rubber coupling)  
 $J_{L2}=0.8 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With direct-coupled coupling)

## ●103H7852-7051



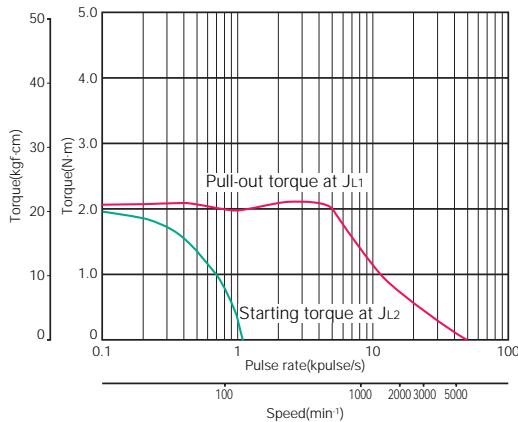
Sanyo constant current circuit  
 Source voltage : 100V AC · Winding current : 0.75A/phase  
 5-phase excitation (Full step)  
 $J_{L1}=2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With rubber coupling)  
 $J_{L2}=2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With direct-coupled coupling)

## ●103H7852-8051



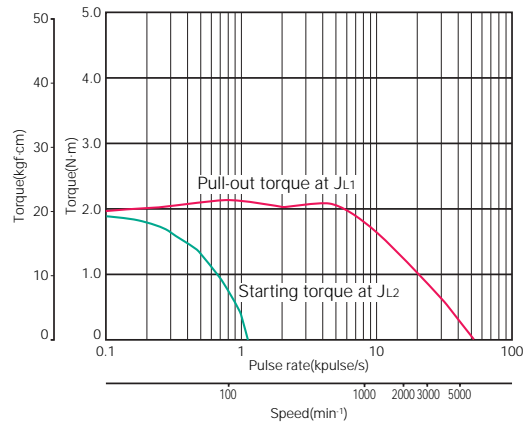
Sanyo constant current circuit  
 Source voltage : 100V AC · Winding current : 1.5A/phase  
 5-phase excitation (Full step)  
 $J_{L1}=2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With rubber coupling)  
 $J_{L2}=2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With direct-coupled coupling)

## ●103H7853-7051



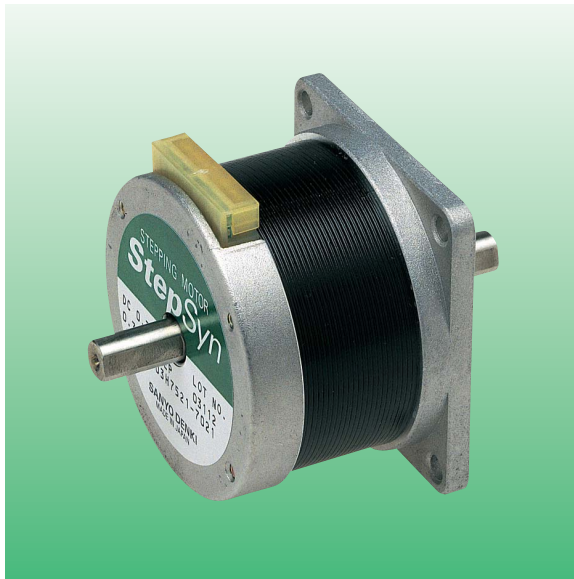
Sanyo constant current circuit  
 Source voltage : 100V AC · Winding current : 0.75A/phase  
 5-phase excitation (Full step)  
 $J_{L1}=7.4 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With rubber coupling)  
 $J_{L2}=7.4 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With direct-coupled coupling)

## ●103H7853-8051



Sanyo constant current circuit  
 Source voltage : 100V AC · Winding current : 1.5A/phase  
 5-phase excitation (Full step)  
 $J_{L1}=7.4 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With rubber coupling)  
 $J_{L2}=7.4 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With direct-coupled coupling)

- 39mm (0.36")
- 60mm (0.45")
- 28mm (0.72")
- 42mm (0.72")
- 50mm (0.72")
- 60mm (0.72")
- 60mm (0.72")
- 86mm (0.72")
- 106mm (0.72")
- CE marked
- Specifications of 5-phase stepping motor
- In-vacuum stepping motor



## 5-phase stepping motor

**60mm cir.** 103H752□-□□□□  
0.72°/step

### ● Applicable drivers

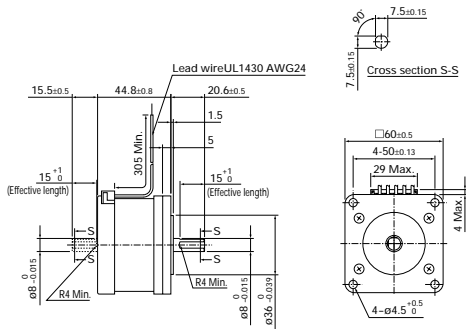


## Specifications

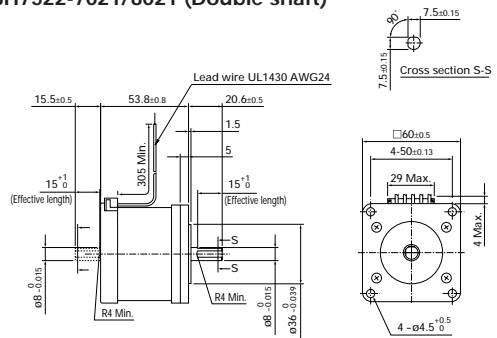
Model number		Holding torque at 5-phase energization	Rated current	Wiring resistance	Wiring inductance	Rotor inertia	Weight
Single-axis	Dual-axis	N.m or more	A/phase	Ω/phase	mH/phase	x 10 <sup>-4</sup> kg·m <sup>2</sup>	kg
103H7521-7051	-7021	0.46	0.75	2.4	4.3	0.148	0.51
103H7521-8051	-8021	0.46	1.5	0.6	1.1	0.148	0.51
103H7522-7051	-7021	0.735	0.75	3.3	7.5	0.18	0.6
103H7522-8051	-8021	0.735	1.5	0.75	2	0.18	0.6
103H7523-7051	-7021	1.568	0.75	5.2	21	0.423	1.1
103H7523-8051	-8021	1.568	1.5	1.4	5.4	0.423	1.1

## Dimensions (unit: mm)

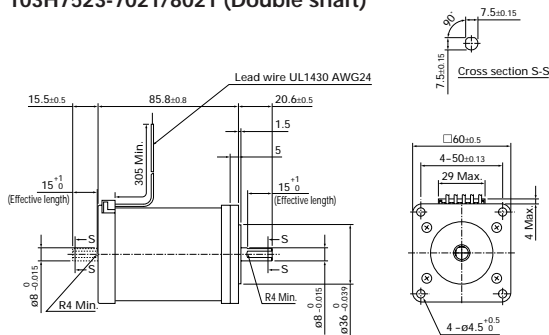
103H7521-7051/8051 (Single shaft)  
103H7521-7021/8021 (Double shaft)



103H7522-7051/8051 (Single shaft)  
103H7522-7021/8021 (Double shaft)

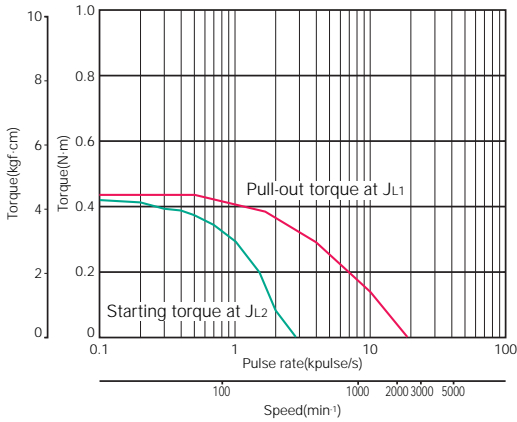


103H7523-7051/8051 (Single shaft)  
103H7523-7021/8021 (Double shaft)



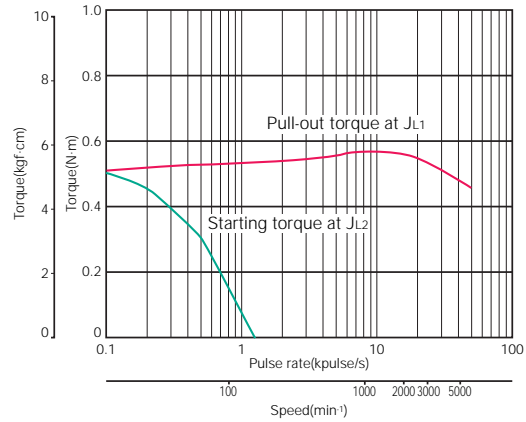
# Pulse rate-torque characteristics

## ●103H7521-7051



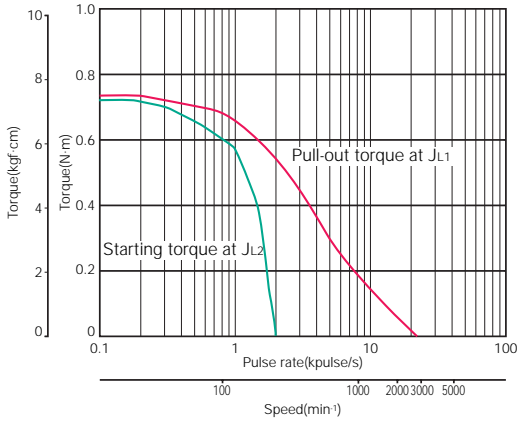
Sanyo constant current circuit  
 Source voltage : 24V DC · Winding current : 0.75A/phase  
 5-phase excitation (Full step)  
 $J_{L1}=0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With rubber coupling)  
 $J_{L2}=0.51 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (Pulley balancer system)

## ●103H7521-8051



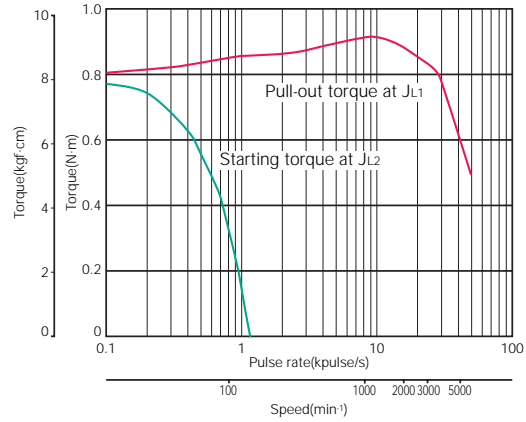
Sanyo constant current circuit  
 Source voltage : 100V AC · Winding current : 1.5A/phase  
 5-phase excitation (Full step)  
 $J_{L1}=0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With rubber coupling)  
 $J_{L2}=0.8 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With direct-coupled coupling)

## ●103H7522-7051



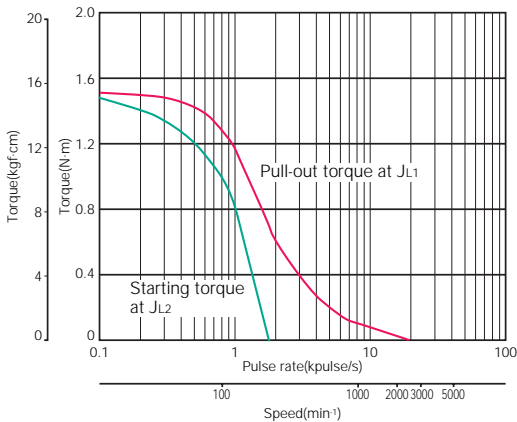
Sanyo constant current circuit  
 Source voltage : 24V DC · Winding current : 0.75A/phase  
 5-phase excitation (Full step)  
 $J_{L1}=2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With rubber coupling)  
 $J_{L2}=0.6 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (Pulley balancer system)

## ●103H7522-8051



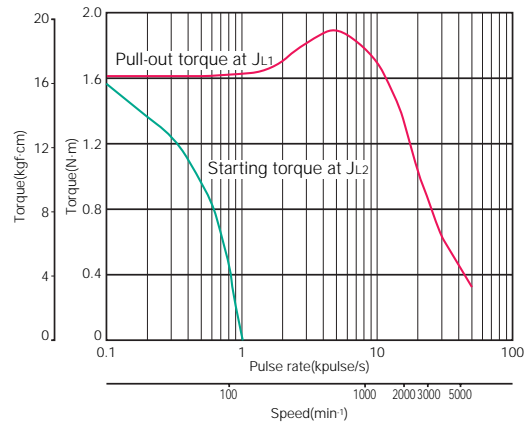
Sanyo constant current circuit  
 Source voltage : 100V AC · Winding current : 1.5A/phase  
 5-phase excitation (Full step)  
 $J_{L1}=2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With rubber coupling)  
 $J_{L2}=2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With direct-coupled coupling)

## ●103H7523-7051



Sanyo constant current circuit  
 Source voltage : 24V DC · Winding current : 0.75A/phase  
 5-phase excitation (Full step)  
 $J_{L1}=7.4 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With rubber coupling)  
 $J_{L2}=1.1 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (Pulley balancer system)

## ●103H7523-8051



Sanyo constant current circuit  
 Source voltage : 100V AC · Winding current : 1.5A/phase  
 5-phase excitation (Full step)  
 $J_{L1}=7.4 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With rubber coupling)  
 $J_{L2}=7.4 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With direct-coupled coupling)

- 39mm (0.36")
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