



## 5-phase stepping motor

**50mm sq.** 103H650□-□□□□  
0.72°/step

### ●Applicable drivers

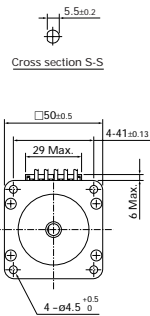
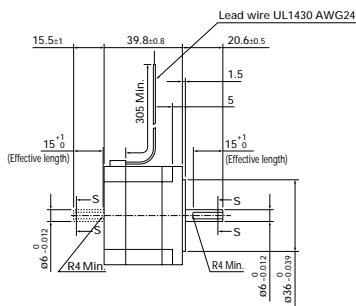


## Specifications

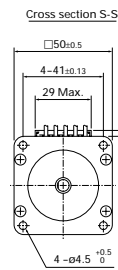
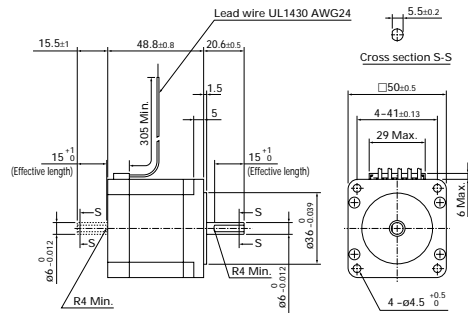
Model number		Holding torque at 5-phase energization	Rated current	Wiring resistance	Wiring inductance	Rotor inertia	Weight
Single-axis	Dual-axis	N.m or more	A/phase	Ω/phase	mH/phase	x 10 <sup>-4</sup> kg·m <sup>2</sup>	kg
103H6500-7041	-7011	0.235	0.75	2	4	0.057	0.38
103H6500-8041	-8011	0.225	1.5	0.47	0.85	0.057	0.38
103H6501-7041	-7011	0.39	0.75	2.6	5.6	0.105	0.44
103H6501-8041	-8011	0.39	1.5	0.65	1.45	0.105	0.44

## Dimensions (unit: mm)

103H6500-7041/8041 (Single shaft)  
103H6500-7011/8011 (Double shaft)

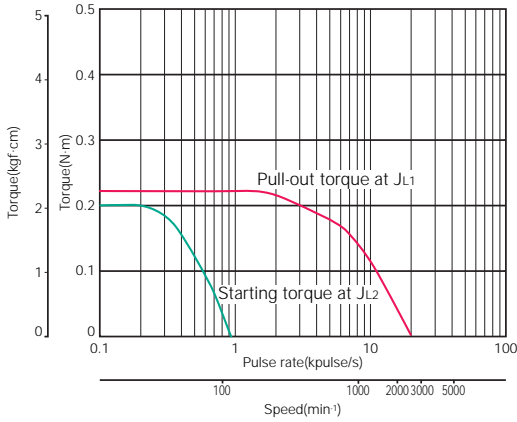


103H6501-7041/8041 (Single shaft)  
103H6501-7011/8011 (Double shaft)



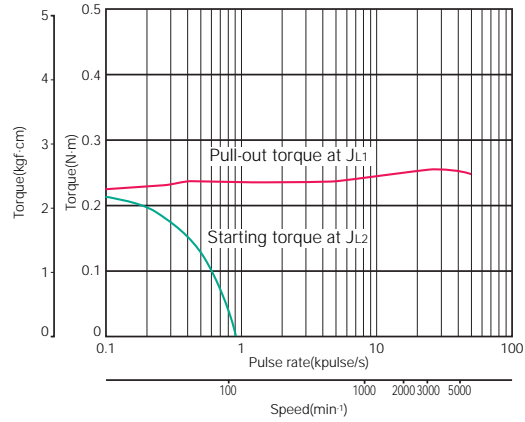
# Pulse rate-torque characteristics

## ●103H6500-7041



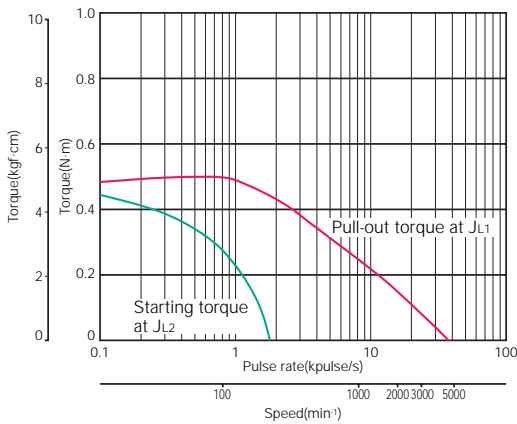
Sanyo constant current circuit  
 Source voltage : 24V DC · Winding current : 0.75A/phase  
 5-phase excitation (Full step)  
 $J_{L1}=0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With rubber coupling)  
 $J_{L2}=0.8 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With direct-coupled coupling)

## ●103H6500-8041



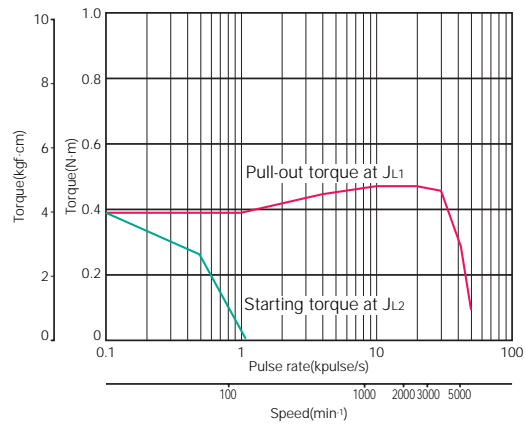
Sanyo constant current circuit  
 Source voltage : 100V AC · Winding current : 1.5A/phase  
 5-phase excitation (Full step)  
 $J_{L1}=0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With rubber coupling)  
 $J_{L2}=0.8 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (With direct-coupled coupling)

## ●103H6501-7041



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)  
 $J_{L2}=0.105 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (Pulley balancer system)

## ●103H6501-8041



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)

- 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