

# SP60

## STEPPING MOTORS

### FEATURES

- Slim and small step angle in the PM stepping motor
- Provided with connector terminals for easy connection

### APPLICATIONS

- Game machines
- Printers
- Others



### PART NUMBER DESIGNATION

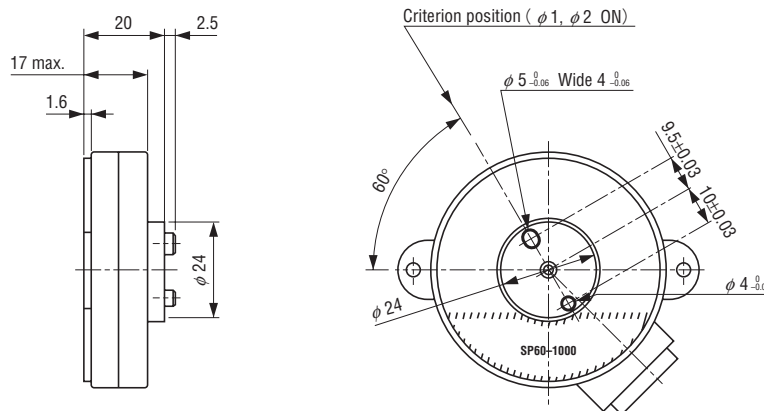
SP60 - 1000

Series name

Dash number

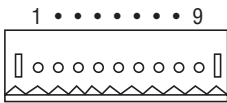
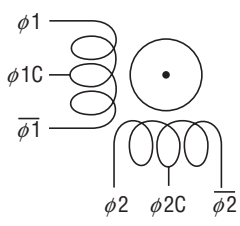
### OUTLINE DIMENSIONS (Reference)

Unless otherwise specified tolerance:  $\pm 0.5$  (Unit: mm)

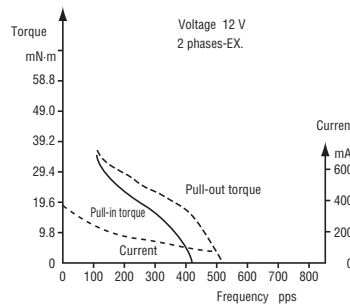


Lot production is required. Please consult us for ordering.

**REFERENCE SPECIFICATIONS**

Item	SP60-1000	備考 Remarks
Number of phases	2	—
Number of poles	80	
Step angle	2.25°	at 2 phases-EX.
Winding resistance	73 Ω (± 10 %)	—
Rated voltage	12 V	
Current/Phase	185 mA maximum (at 0 pps)	
Pull-in torque	Refer to PERFORMANCE CURVES	
Pull-out torque		
Pull-in pulse rate		
Maximum continuous response frequency		
Temperature rise (Δt)	35 °C maximum	at 125 pps 2 phases-EX. (Surface temp. of housing)
Insulation resistance	30 MΩ (DC500 V)	—
Dielectric strength	AC600 V 50 Hz 1 min	
Operating temperature range	- 10 ~ 50 °C	
Net weight	160 g	
Connector terminal	<p>Male connector 09DR-N-E8E Made by J.S.T. Mtg. Co., Ltd</p>  <p>1 2 3 4 5 6 φ 1 φ 2 1C 2C φ 1 φ 2</p> 	

**PERFORMANCE CURVES (Reference value)**



※ These performance curves show actual value, not guaranteed value.

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