

STEPPING MOTORS

SPG20-1000

FEATURES

- Compact stepping motor with gear head
- Provided with connector terminals for easy connection
- RoHS compliant

APPLICATIONS

- Game machines
- Others



PART NUMBER DESIGNATION

S P G 2 0 - 1 0 0 0

Series name

Dash number

LIST OF PART NUMBERS

Gear ratio	Winding resistance	68 Ω	180 Ω
1/6	Unipolar	SPG20-1298	SPG20-1311
1/12		SPG20-1372	SPG20-1373
1/18		SPG20-1362	SPG20-1361
1/24		SPG20-1332	SPG20-1333
1/36		SPG20-1308	SPG20-1290

※ When ordering, please specify the part number and dash number.

Lot production is required. Please consult us for ordering.

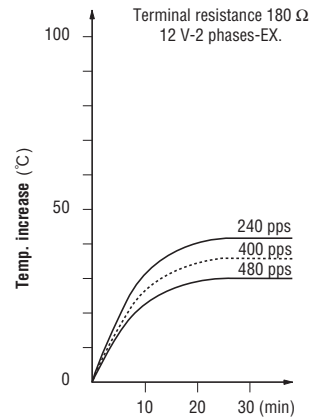
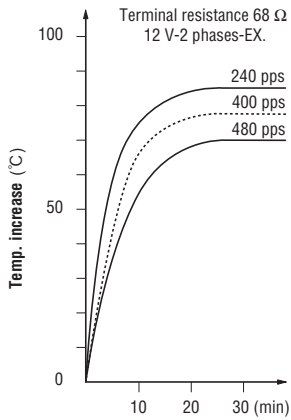
SPG20-1000
STEPPING MOTORS

STANDARD SPECIFICATIONS

Item	SPG20-1000									
	1298	1372	1362	1332	1308	1311	1373	1361	1333	1290
Number of phases	2									
Number of poles	10									
Excitation	2 phases unipolar									
Gear ratio	1/6	1/12	1/18	1/24	1/36	1/6	1/12	1/18	1/24	1/36
Basic step angle	3 °	1.5 °	1 °	0.75 °	0.5 °	3 °	1.5 °	1 °	0.75 °	0.5 °
Steps	120	240	360	480	720	120	240	360	480	720
Winding resistance	68 Ω					180 Ω				
Power	Average power consumption 2 W maximum									
Current	Refer to PERFORMANCE CURVES									
Pull-in torque										
Pull-out torque										
Pull-in pulse rate										
Maximum continuous response frequency										
Temperature rise	Refer to TEMPERATURE CHARACTERISTICS									
CURVES Insulation resistance	30 MΩ minimum at DC500 V									
Dielectric strength	500Vrms (AC50 Hz, 1 min)									
Operating temperature range	0 ~ 50 °C									
Net weight	Approx. 24 g									
Axial maximum load	Continuous	19.6 mN-m								
	Momentary	98.1 mN-m								
Standard connector terminal	<p>Male connector 06ZR-8M or ZHR-6 Made by J.S.T. Mfg. Co., Ltd</p> <p>6 5 4 3 2 1 φ1 φ2 φ1C φ2C φ1 φ2</p>									

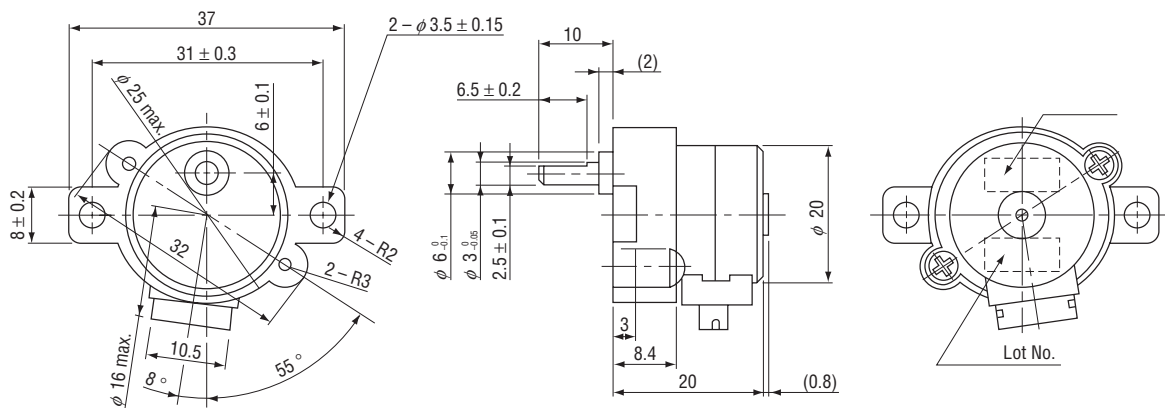
SPG20-1000 STEPPING MOTORS

TEMPERATURE CHARACTERISTICS (REFERENCE VALUE)



OUTLINE DIMENSIONS

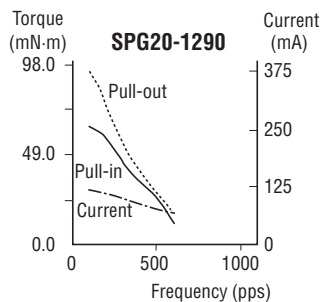
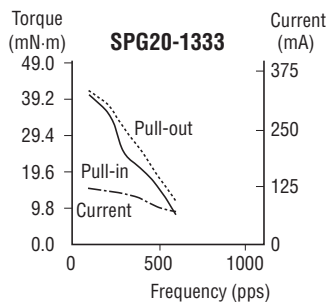
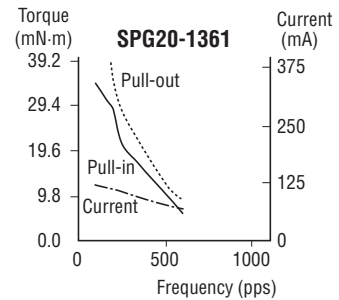
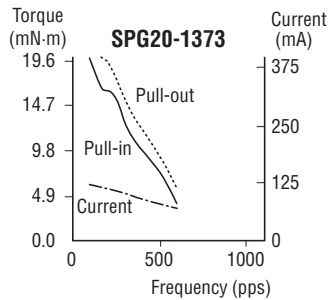
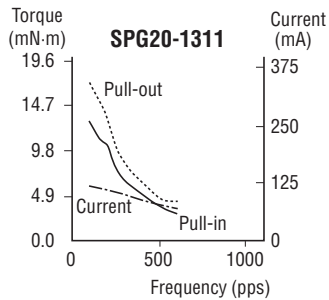
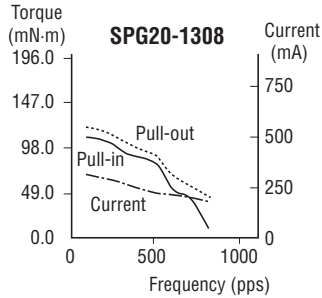
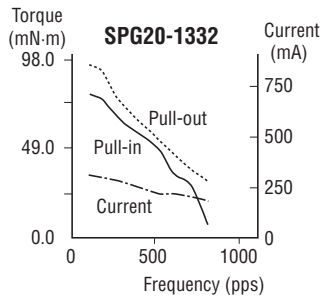
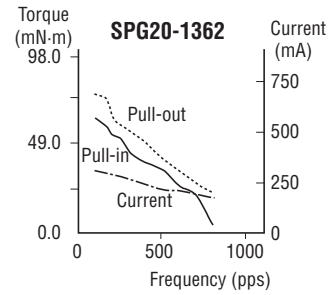
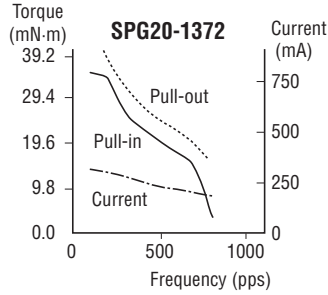
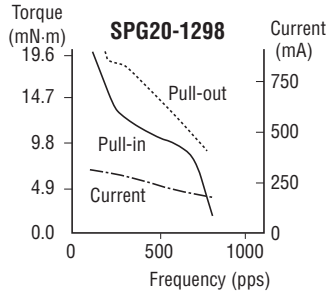
Unless otherwise specified tolerance: ± 0.5 (Unit: mm)



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PERFORMANCE CURVES

12V-2phases-EX.



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