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# Stepping Motors M42SP-5, -5K

Stepping Motors

### OUTLINE

"M42SP-5" has the holding torque of 94.1mN  $\cdot$  m, the pull-out torque of 46.10mN  $\cdot$  m/200pps, and the pull-in torque of 45.6mN  $\cdot$  m/200pps (24V DC), which are highest torques in the outer diameter ø42 model series.

"M42SP-5K" implements such quick response as the holding torque of  $85.0 \text{mN} \cdot \text{m}$ , the pull-out torque of  $65.0 \text{mN} \cdot \text{m}/800 \text{pps}$ , and the pull-in torque of  $76.0 \text{mN} \cdot \text{m}/200 \text{pps}$  (24V DC). In addition, it provides an extremely quiet running environment.



#### **FEATURES**

- 1. High output torque (M42SP-5), quick response (M42SP-5K).
- 2. Superior running quietness and stability.
- 3. Step angle: 7.5°.
- 4. Excellent responsiveness acquired.

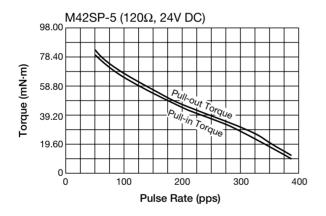
#### USES

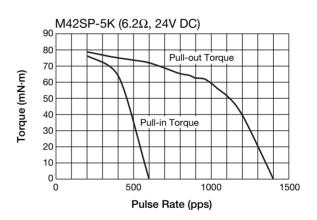
Printers, multifunction machines, copy machines, FAX, and such.

## SPECIFICATIONS

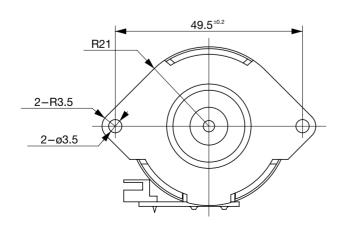
Items	M42SP-5	M42SP-5K
Rated Voltage	DC 24V	
Working Voltage	DC 21.6~26.4V	
Rated Current/Phase	216mA	850mA (PEAK)
No. of Phase	4 Phase	
Coil DC Resistance	120Ω/phase±7%	6.2Ω/phase±10%
Step Angle	7.5°/step	
Excitation Method	2-2 Phase excitation	2-2 Phase excitation
	(Unipolar driving)	(Bipolar chopping driving)
Insulation Class	Class E insulation	
Holding Torque	94.1mN·m	85.0mN·m
Pull-out Torque	46.1mN·m/200pps	65.0mN·m/800pps
Pull-in Torque	45.6mN·m/200pps	76.0mN·m/200pps
Max. Pull-out Pulse Rate	445pps	1380pps
Max. Pull-in Pulse Rate	435pps	600pps

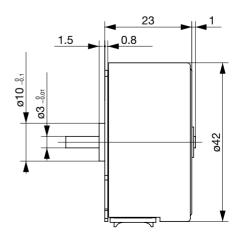
## CHARACTERISTICS





## DIMENSIONS





Unit: mm, General tolerance: ±0.5