

# Stepping Motors

## M25SP-3, -4

### OUTLINE

"M25SP-3", the standard, 25mm outer diameter model series, and "M25SP-4" type with 15° step angle.

Excitation method and outside dimensions are all common.

This configuration however allows you to select the holding, pull-out and pull-in torques suited to your equipment into which the motors will be integrated.



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### FEATURES

1. Compact size and high output torque.
2. Superior running quietness and stability.
3. Step angle : 7.5° (M25SP-3), 15° (M25SP-4).
4. Excellent responsiveness acquired.

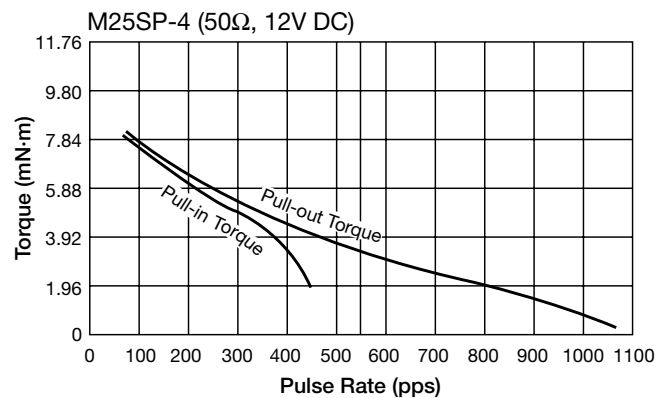
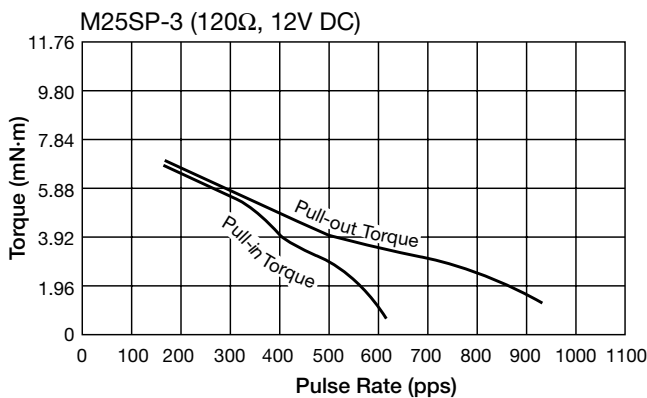
### USES

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

## SPECIFICATIONS

Items	M25SP-3	M25SP-4
Rated Voltage	DC 12V	DC 12V
Working Voltage	DC 10.8~13.2V	DC 10.8~13.2V
Rated Current/Phase	108mA	259mA
No. of Phase	4 Phase	4 Phase
Coil DC Resistance	120Ω/phase±7%	50Ω/phase±7%
Step Angle	7.5°/step	15°/step
Excitation Method	2-2 Phase excitation (Unipolar driving)	
Insulation Class	Class E insulation	Class E insulation
Holding Torque	11.76mN·m	12.25mN·m
Pull-out Torque	6.66mN·m/200pps	6.27mN·m/200pps
Pull-in Torque	6.47mN·m/200pps	5.88mN·m/200pps
Max. Pull-out Pulse Rate	940pps	1,200pps
Max. Pull-in Pulse Rate	570pps	510pps

## CHARACTERISTICS



## DIMENSIONS

