

# STEPPING MOTORS

# SP27

## FEATURES

- Compact & high torque type
- RoHS compliant

## APPLICATIONS

- Game machines
- Printers



## PART NUMBER DESIGNATION

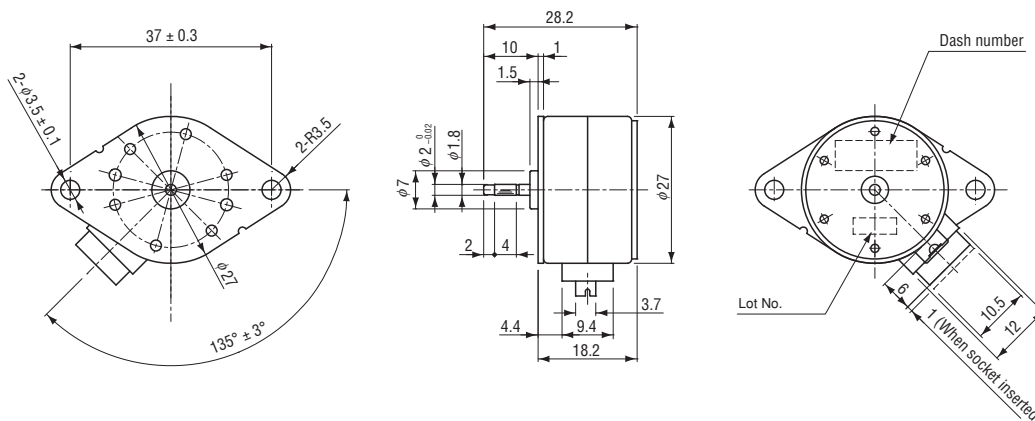
SP27 - 2003

Series name

Dash number

## OUTLINE DIMENSIONS

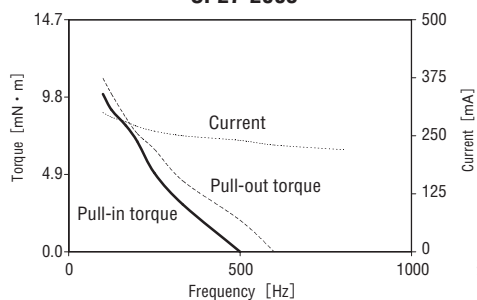
Unless otherwise specified tolerance:  $\pm 0.5$  (Unit: mm)



## FREQUENCY PERFORMANCE CURVES

12V-2phases-EX.

SP27-2003



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

Lot production is required. Please consult us for ordering.

# SP27

## STEPPING MOTORS

### REFERENCE SPECIFICATIONS

| Item                                  | SP27-2003   | Remarks                       |
|---------------------------------------|---|-------------------------------|
| Number of phases                      | 4   | ※1                            |
| Number of poles                       | 12  | —                             |
| Excitation                            | 2 phases unipolar   |                               |
| Step angle                            | 15°   | at 2 phases-EX.               |
| Steps                                 | 24  | at 2 phases-EX.               |
| Winding resistance                    | 60 Ω  | ± 10 %                        |
| Power                                 | Average power consumption 5 W maximum   | —                             |
| Current/Phase                         | Refer to PERFORMANCE CURVES   | —                             |
| Pull-in torque                        |   | Reference value               |
| Pull-out torque                       |   |                               |
| Pull-in pulse rate                    |   |                               |
| Maximum continuous response frequency |   |                               |
| Rotor inertia                         |   |                               |
| Temperature rise                      | 30 °C   | at 500 pps 2 phases-EX. DC12V |
| Insulation resistance                 | 30 MΩ minmum  | DC500 V                       |
| Dielectric strength                   | AC500 Vrms  | 50 Hz, 1 min                  |
| Operating temperature range           | － 10 ~ 50 °C  | —                             |
| Net weight                            | Approx. 50 g  |                               |
| Connector terminal                    | ※2 <div><div>Male connector</div><div><div>654321</div><div>φ 1 φ 2 φ 1C φ 2C φ 1 φ 2</div></div><div>Made by J.S.T. Mfg Co., Ltd</div><div><div><div>φ 1 φ 2 φ 1C φ 2C φ 1 φ 2</div><div>Axial direction</div></div><div><div><div>φ 1 φ 1C φ 1</div><div>φ 2 φ 2C φ 2</div></div></div></div></div> |                               |

※ The characteristics were measured using DM-412X.

※ Winding resistance 60 Ω is typical value.

※1 Substitutable as two bipolars due to open common terminal pins.

※2 Substitutable as a bipolar by combination of φ1-φ1 and φ2-φ2 or combination of φ1-φ1C and φ2-φ2C.

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