



All unit in millimeter

1. Standard Operating Conditions :

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| (1) Rated Voltage : | 4.5VDC Constant |
| (2) Operating Voltage Range : | 1.7V~5.0VDC |
| (3) Rated Load : | 500 g-cm (4.9 N-cm) |
| (4) Direction of Rotation : | CW & CCW |
| (5) Motor Position : | All directions |
| (6) Movable Temperature Range : | -20°C ~ +50°C |
| (7) Storage Temperature : | -30°C ~ +70°C |

2. Measurement Conditions :

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| (1) Motor Position : | To be held with shaft horizontally. |
| (2) Power Source : | Regulated DC power supply which assures unquestionable measurement. |
| (3) Environmental Temperature and Humidity : | +5°C ~ +35°C and 30% ~ 90% RH
If the judgment is questionable, measurement is to be made in accordance with JIS standard testing conditions (20°C ± 2°C, 65% ± 5% RH). |
| (4) Direction of Rotation : | CCW when viewed from output shaft side. |

3. Electrical Characteristics :

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| (1) No-load Current : | 90mA MAX. |
| (2) No-load Speed : | 54 ± 8rpm. |
| (3) Rated-load Current : | 220mA MAX. |
| (4) Rated-load Speed : | 40 ± 8rpm. |
| (5) Current at Lock : | 700mA MAX. |
| (6) Mechanical Noise : | 60 dB MAX. |
| (7) Starting Torque : | 1500 g-cm min. (14.7 N-cm) |