

▶ Electrical / Mechanical Characteristics

| Variables: • Ambient temperature Ta= 22° C • Voltage at the coils U = 5 V±0.1 V | | | | |
|--|------------|------------|-----------|-------------------|
| Parameter | Min | Typical | Max | Unit |
| Rotor Step Angle | – | 18 | – | degree |
| Gear Ratio | – | 1:36 | – | – |
| Pole pairs rotor | – | 5 | – | – |
| Step size degree in full step mode | – | 0.5 | – | degree |
| Step size degree with 6 μ steps mode | – | 0.083 | – | degree |
| Operating angle : • Plastic output shaft • Steel output shaft | 310 310 | – | – | degree degree |
| Operating temperature | - 40 | – | 105 | °C |
| Storage temperature | - 50 | – | 105 | °C |
| Soldering temperature (max 5 sec) | – | – | 290 | °C |
| Operating voltage | 4.5 | – | 7.5 | V |
| Operating current | – | 20 | 35 | mA |
| Coil resistance | 214 | 227 | 240 | – |
| Coil inductance | 45 | 55 | 65 | mH |
| Dynamic torque @ 200°/s • Plastic output gear • Steel output shaft | 1.2 1.2 | 1.6 1.6 | – – | mNm mNm |
| Holding torque (with current, 5V) • Plastic output shaft • Steel output shaft | 2.5 2.5 | 3.6 3.6 | – – | mNm mNm |
| Noise Level @ 200 degree / sec @ 5cm from the reference face, pre-test (one output shaft running at a time) | – | 30 | 35 | dB (A) |
| Maximum speed | 800 | – | – | °/s |
| Equivalent motor inertia at output | – | 5.1 E-06 | – | kg m ² |
| Permissible forces on output gear Axial force (with retention of the housing) Radial force at 10 mm from front face of motor | – | – | 100 15 | N N |

Special requirements upon customer specifications. Right to change reserved. Patent protected.

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