

## 1. OPERATING CONDITIONS

ITEMS	SPECIFICATIONS
RATED VOLTAGE	3.0V DC
OPERATING VOLTAGE	1.7~3.6V DC
RATED LOAD	COUNTERWEIGHT (ACCORDING TO SPECIFICATION OF MOTOR HOUSING CONFIGURATION)
ROTATION	C. W. (CLOCKWISE)
OPERATING CONDITIONS	-20°C~60°C, ORDINARY HUMIDITY/ 10~90%RH
STORAGE CONDITIONS	-20°C~80°C, ORDINARY HUMIDITY/ 5~95%RH (NO CONDENSATION OF MOISTURE)

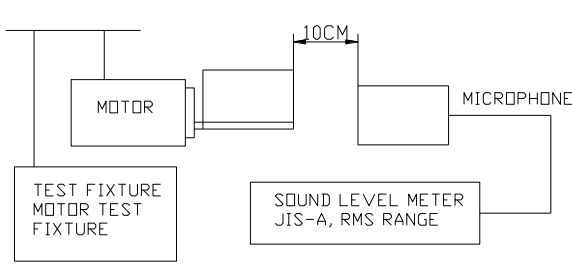
## 2. MEASURING CONDITIONS

ITEMS	SPECIFICATIONS
TEMPERATURE	20±2°C
HUMIDITY	(65±5%)RH
MOTOR POSITION	MOTOR SHAFT HORIZONTAL (LOCK THE MOTOR IN A TEST FIXTURE)

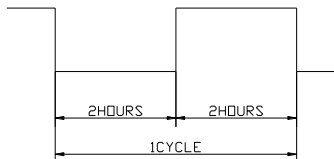
ALL DATA ARE BASED ON THE MEASURING CONDITIONS: TEMPERATURE, 20°C; HUMIDITY, 65%RH. IF ANY DISAGREEMENT OCCURS, SUCH TEST CONDITIONS ARE AVAILABLE: TEMPERATURE, 5~35°C; HUMIDITY, 45~85%RH

## 3. MECHANICAL PERFORMANCE AND CHARACTERISTICS

ITEMS	SPECIFICATIONS	CONDITION REMARK
RATED SPEED	14000±2000 rpm/min	AT RATED VOLTAGE AND RATED LOAD (COUNTERWEIGHT)
RATED CURRENT	75 mA (MAX)	
STALL CURRENT	140 mA (MAX)	AT RATED VOLTAGE AND SHAFT LOCK
STARTING VOLTAGE	1.7V DC (MAX)	AT RATED LOAD (COUNTERWEIGHT) ANY POSITION OF ROTOR
INSULATION RESISTANCE	1MΩ (MIN)	AT DC 100V BETWEEN THE LEAD WIRES OR REED AND MOTOR HOUSING
ARMATURE RESISTANCE	24±20%Ω	AT 20°C

MECHANICAL NOISE	45dB (MAX)
	<p>MEASURED AT RATED VOLTAGE AND RATED LOAD (COUNTERWEIGHT BACKGROUND NOISE 28dB (MAX)</p> <p>LOCK THE MOTOR IN A TEST FIXTURE (SHAFT HORIZONTAL)</p> 
WEIGHT	1.85±0.2g

#### 4. RELIABILITY TEST

ITEMS	STANDARD TEST CONDITIONS	REQUIREMENTS
LIFE TEST/	<p>VOLTAGE: 3.0V DC</p> <p>LOAD: COUNTERWEIGHT</p> <p>TEMPERATURE: 20°C±2°C</p> <p>HUMIDITY: 65±5%RH</p> <p>LOCK THE MOTOR IN A TEST FIXTURE (SHAFT HORIZONTAL)</p>	AFTER 2 HOURS PLACED IN ORDINARY TEMPERATURE AND HUMIDITY, MOTORS SHALL BE SATISFY WITH SPECIFICATION
	<p>TEST MODEL: 2S ON (C.W)、2S (OFF)</p> <p>TEST TIME: 50,000CYCLES</p>	
LOW TEMP STORAGE	<p>TEMPERATURE: -20°C±2°C</p> <p>TIME: 96 HOURS</p>	AFTER 2 HOURS PLACED IN ORDINARY TEMPERATURE AND HUMIDITY, MOTORS SHALL BE SATISFY WITH SPECIFICATION
HIGH TEMP STORAGE	<p>TEMPERATURE: 80°C±2°C</p> <p>TIME: 48HOURS</p>	
HUMIDITY STORAGE	<p>TEMPERATURE: 70°C±2°C</p> <p>HUMIDITY: 90~95%RH</p> <p>TIME: 240 HOURS</p> <p>NO CONDENSATION OF MOISTURE</p>	
TEMPERATURE SHOCK	<p>60°C±2°C      -10°C±2°C</p>  <p>TEST DURATION: 32CYCLES</p> <p>TRANSITION TIME: 20S</p>	AFTER 24 HOURS PLACED IN ORDINARY TEMPERATURE AND HUMIDITY, MOTORS SHALL BE SATISFY WITH SPECIFICATION

VIBRATION TEST	<p>TOTAL PEAK AMPLITUDE: 1.5mm (P-P)          FREQUENCY: 233HZ          PERIOD:10-55-10HZ          DIRECTION: X, Y, Z          TEST TIME: 30 MINUTES PER PLANE</p>	
DROP TEST	<p>SET THE MOTOR ON THE HEAVY BLOCK ABOUT 100g WEIGHT (INCLUDE THE MOTOR) AND DROP THE MOTOR ON THE CONCRETE FLOOR.          HEIGHT: 1.5m          DIRECTION: <math>\pm X</math>, <math>\pm Y</math>, <math>\pm Z</math>          TIMES: TWO DROPS PER PLANE FOR A TOTAL OF 12 DROPS</p>	<p>AFTER THE TEST, MOTORS SHALL BE SATISFY WITH SPECIFICATION</p>

## 5. MECHANICAL DRAWING

