

1. General Description

This specification applies to coin-shape permanent-magnetic motor DC model C0834B011F.

2. Operating condition

Item	Specification	Conditions
2-1	Rated voltage	3.0V DC
2-2	Operating voltage	2.7~3.3V DC
2-3	Direction of vibration	CW(clockwise) or CCW(contrary clockwise)
2-4	Operating environment	-20~+60°C, Ordinary Humidity: 65±20% RH

2-5	Storage environment	-30~+70°C, Ordinary Humidity : 65±20% RH

3. Condition of Measurement

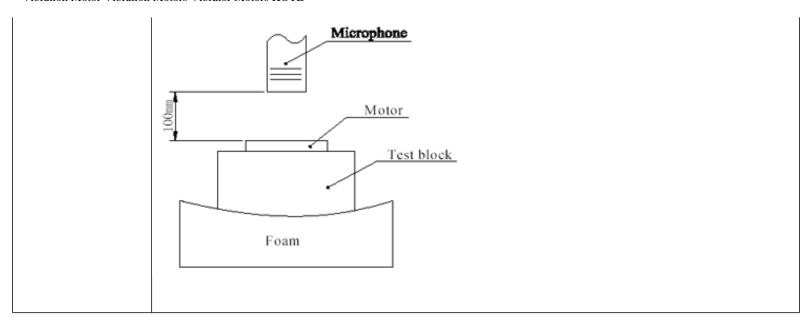
Item	Specification	Conditions
3-1	Temperature	25±3°C
3-2	Humidity	65±20% RH
3-3	Power supply	DC power supply 3.0V

4. Electrical initial characteristics

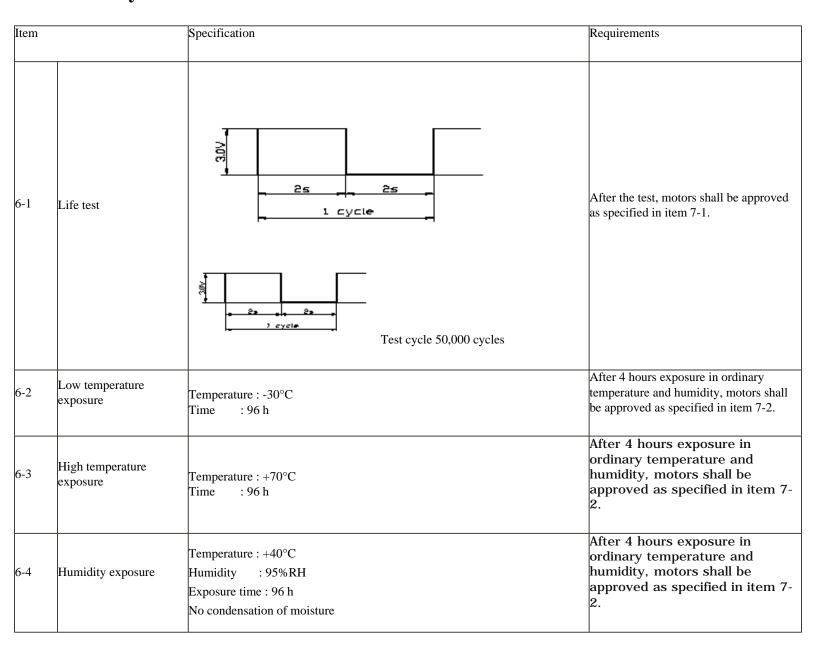
Item	Specification		Conditions
4-1	Rated speed	12000±3000 rpm	At rated voltage
4-2	Rated current	100mA Max	
4-3	Starting current	120 mA Max	Motor is rotating at min starting voltage.
4-4	Starting voltage	2.3V DC Max	
4-5	Insulation resistance:	10MΩ Min	At DC 100 V between lead wire and case.
4-6	Terminal resistance	, <u> </u>	25°C 25°C

5. Mechanical characteristics

Item	Specification	Conditions
5-1	Bracket deflection strength	9.8N 9.8N or more
	Mechanical noise	50dB (A) Max
	At rated voltage. Back ground n	oise 28dB(A) Max
5-2		



6. Reliability Tests



6	5-5	Vibration	After the test motors shall be approved as specified in item 7-2.
6	5-6	Free fall	After the test motors shall be approved as specified in item 7-2.
ϵ	5-7		After the test motors shall be approved as specified in item 7-2.

7. Judgments after Reliability Tests

Item	Specification

		1) Rated speed: No lower than -30% of Initial data No more than +50% of Initial data 2) Rated current: No lower than -30% of Initial data No more than +50% of Initial data
7-1	Table A	3) Terminal resistance : $10M\Omega$ Min
		4) Starting voltage: 2.5V DC Max
		5) Insulation resistance: $10M\Omega / 10M\Omega$ Min
		1) Rated speed: No more than +20% of Initial data
		No less than -20% of Initial data
7-2	Table B	2) Rated current: No more than +20% of Initial data No less than -20% of Initial data
		3) Starting voltage: 2.5V DC Max
		4) Terminal resistance : No more than +15% of Initial data
		No less than -15% of Initial data

8. Caution for Use

- 8-1 Unless it is used in accordance with the specifications, the performance and life may be considerably reduced . Due attention should be paid to voltage and range for use.
- 8-2 Avoid use or save the motor in the following environment.
 - 1. High temperature and high humidity area
 - 2. Corrosive gas such as H2S, SO2, NO2, Cl2.
 - 3. Dusty area.
- 8-3 Due attention must be paid to the handling and working environments because such objects as iron powder if attracted by the motor magnet, will cause noise, characteristic deterioration thus reducing the reliability.
- 8-4 Please confirm enough no problem of standards and laws and ordinances on your cellular phone.
- 8-5 To handle the motor ,hold the motor case softly.
- 8-6 Rust of plate (steel) and similar edge should be OK.

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