

1. General

This specification applies to coin permanent magnetic motors BL0825

Item		Specification
2-1	Rated voltage	3.0V DC
2-2		2.3~4.0V DC
2-3		CM(clockwise) or CCW(Contrary clockwise)
2-4	Operating environment	-20~+60℃, Ordinary Humidity
2-5	Storage environment	-30~+70℃, Ordinary Humidity

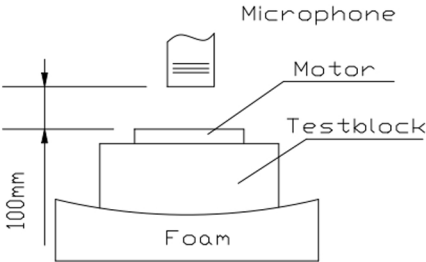
2. Measuring condition

Item		Specification
3-1	Temperature	25±3℃
3-2	Humidity	62±20% RH
3-3	Air pressure	1011±40 hPa
3-4	Current	Stabilized current

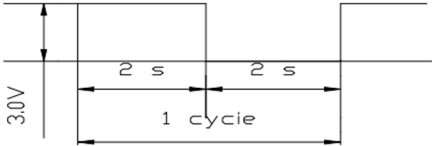
3. Electrical initial characteristics

Item		Specification	Condition
4-1	Rated speed	13500±2500rpm min	At rated voltage
4-2		80mA Max	
4-3		120mA Max	
4-4	Starting voltage	2.3V DC Max	Motor is rotating at min starting voltage
4-5	Insulation resistance	10MΩ Min	At DC 100Vbetween lead wire and case.
4-6	Terminal resistance	32Ω±15%(sigle posture) 56Ω±15%(double posture)	At 25℃

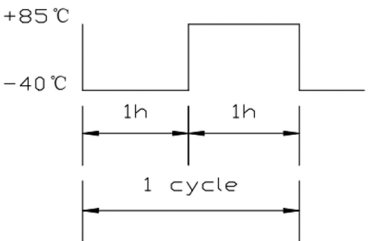
5. Mechanical characteristics

Item		Specification
5-1	Bracket deflection strength	9. 8N or more
5-2	Mechanical noise	50dB(A) Max
	At rated voltage Back ground noise 28dB(A) Max	

6. Durability characteristics

Item		Specification	Judgment
6-1	Life	 Test cycle: 50,000 cycles	After the test ,motors shall be approved as specified in item 7-1.

Item		Specification	Judgment
6-2	Low temp exposure	Temperature :-30 Time :96h	After 4 hours exposure in ordinary temperature and humidity, Motors shall be approved as specified in item7-2.
6-3	High temp Exposure	T Temperature :+70 Time :96h	
6-4	Humidity exposure	Temperature :+40 Humidity :95%RH Exposure time :96h NO condensation of moisture	
6-5	Vibration	Displacement :1.5mm (p-p) Frequency:10~54Hz Acceleration :22m/s Period:10min(10~55~10Hz) 10 Minutes log sweep(10~55~10Hz) Condition : This motion shall be applied for a period of 10 minutes in each of 3 mutuallyperpend axis	After the test motors shall be approved in item7-2.
6-6	Free fall	Set the motor to the approximately 100g(include the motor) Weight of block drop the motor on the concrete floor. Height :1.5m Direction :±x. ±y ±z. Number of times: Each 3 times Shock:29420m/s Equivalent (3000G)	After the test motors shall be approved as specified in item7-2.

6-7	Heat stock test		After the test motors shall be approved as specified in item7-2
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7.

Item		Judgment	
7-1	Table A	1.	Rated speed : data+30% Initial Min : data+50% Initial Max
		2.	Rated current :data+30% Initial Min :data+50% Initial Max
		3.	Starting voltage: : 2.5V DC Max
		4.	Insulation resistance :10M Ω Min
		5.	Terminal resistance: :Initial data±15% Max
7-2	Table B	1.	Rated speed : Initial data±20% Max
		2.	Rated current : Initial data±20% Max
		2.	Starting voltage: : 2.5V DC Max
		3.	Terminal resistance: : Initial data±15% Max

8. Matters to be paid attention to when using motor

8-1 Please apply motors in accordance with specifications ,especially aware of ranges of operation voltage ,or its performance and life durability may be consider ably reduced.

8-2
dvice use this motor within 6 month as avoiding as possible
Avoid use or save the motors in the following environment.

1. High temperature and high humidity area
2. Corrosive gas such as H_2S , SO_2 , NO_2 , Cl_2 ,
3. Dusty area

8-3 Please pay much attention to the working environment to avoid iron sundries from being sucked in
The motors , possible to trigger noise , reduce performance , and decrease reliability.

8-4 Please confirm enough no problem of standards and laws and ordinances on your cellular.

8-5 TO handle the motor ,hold the motor case softly

8-6 Rust of plate (steel)ad similar edge should be OK.

