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產品規格說明書

Product Specification

客戶名稱 Buyer Name		客戶代碼 Buyer Code	
產品名稱 Product Name	Cylinder Type Micro Vibration Motor	產品編碼 Product Part No.	IND-YZ0612H-2536
規格書號 Specification No.	IND314	發佈日期 Date of Release	2010-1-13

聲明：本產品符合歐盟 2005/618/EC 環保指令相關要求。

We declare that the product is compliant with EU 2005/618/EC directives.

貴司確認本產品樣品後，在決定採購本產品之前，請您仔細閱讀本產品規格說明書，並在客戶承認欄內簽名及蓋章並回傳此頁給我司相關人員備案。After you approve the product samples, please read this specification carefully and return this page to us with your signature and company chop in below *Customer Approval* table before you decide to purchase this product.

客戶承認欄 Customer Approval				
	工程 Engineering	品質 Quality	生產 Production	採購 Procurement
簽名及蓋章 Signature & Company Chop				
日期 Date				

愛立德工廠承認欄 INEED Factory Approval			
簽名及蓋章 Signature & Company Chop	批准 Approved by 倪曉萍 MIZHAOPING	審核 Checked by 白兵 BAIJING	編制 Prepared by 孟紅麗 MENG HONGLI
日期 Date	2010-1-13	2010-1-13	2010-1-13

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規格說明SPECIFICATIONS

1. 適用範圍 General Scope

本文規定 **IND-YZ0612H-2536** 直流永磁電動機有關技術要求和試驗方法。

This specification specifies the related technical data and test methods of DC motor **IND-YZ0612H-2536**.

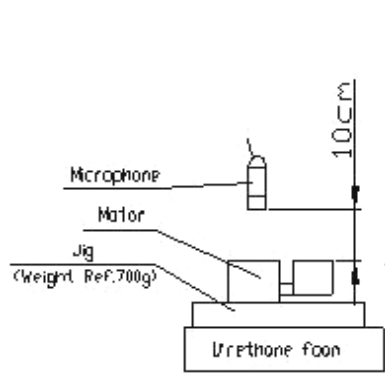
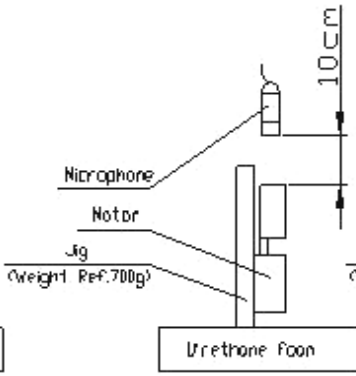
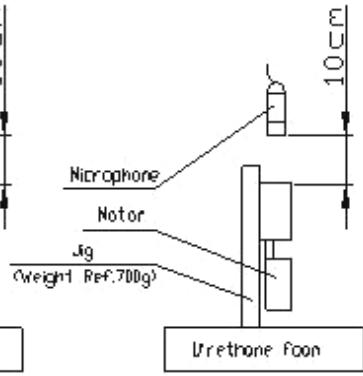
2. 使用條件 Operating Conditions

序號 No.	專案 Items	規格 Specifications
2-1	使用溫度範圍 Operating Temperature Ranges	-10°C~+60°C
2-2	使用濕度範圍 Operating Humidity Ranges	10%~90% RH
2-3	測試環境 Test Environment	溫度：+15°C~+30°C、相對濕度：30%~70% RH。 Temperature: +15°C~30°C; Humidity: 30%~70% RH.
2-4	旋轉方向 Direction of Rotation	從輸出軸側看，CW或CCW均可。 CW or CCW, viewed from output shaft side.

3. 初期電氣性能 Initial Electrical Characteristics

序號 No.	專案 Items	規格 Specifications
3-1	額定電壓 Rated Voltage	3.0V DC
3-2	使用電壓範圍 Operating Voltage Ranges	2.2-3.6V DC
3-3	額定負載 Rated Load	Counterweight R2.5*3.6
3-4	額定轉速 Rated Speed	9,500±2,500 RPM
3-5	額定電流 Rated Current	45mA Max
3-6	起動電流 Starting Current	85mA Max
3-7	起動電壓 Starting Voltage	1.7V DC Max
3-8	電樞電阻 Terminal Resistance	50Ω±10%
3-9	絕緣電阻 Insulation Resistance	1.0 MΩ MIN, at 100V DC meg

4. 機械性能 Mechanical Characteristics

序號 No.	專案 Items	規格 Specifications
4-1	軸向間隙 (串量) Axial End Play	0.1-0.3mm
4-2	軸伸徑向圓跳動量 Shaft Radial Run-out	距軸端部1.0mm處測試應不大於0.1mm。 (It shall be no more than 0.1mm from the 1.0mm place of output shaft side.)
4-3	單臺重量 Weight	2.52 g (ref.)
4-4	軸向垂直度 Axial Upright Degree	90°±1°
4-5	振子固定力 Holding Force of Counterweight	49N (5kgf) Min
4-6	Mechanical Noise 機械雜訊	50 dB (MAX) 100mm (background noise within 32dB).
	<p>測試方法：在額定電壓、額定負載（振子）下。背景雜音：不大於 32dB（A 計權）。測試儀器：B&k；夾具重量：700g。</p> <p>Test Method: At rated voltage. Back ground noise: 32dB (A) Max. Measuring instruments: B&k. Weight of jig: 700g.</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;">    </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> Fig. A Fig. B Fig. C </div>	

5. 壽命測試及後期要求 Lifetime Test & Post Requirements

序號 No.	專案 Items	規格 Specifications
5-1	壽命測試 Lifetime Test	按一個週期8秒開、52秒關，連續運轉48小時後，按5-2、5-3進行相關專案測試驗證。 8 secs on 52 secs off as 1 cycle, for 48 hours, and then test and verify according to item 5-2 and 5-3.
5-2	額定轉速 Rated Speed	不低於初始值-50%，不高於初始值+50%。 No less than initial data -50%, no more than initial data +50%.
5-3	額定電流 Rated Current	不低於初始值-50%，不高於初始值+50%。 No less than initial data -50%, no more than initial data +50%.

6. 使用時注意事項 Precautions in Use

序號 No.	使用時注意事項 Precautions in Use
6-1	<p>必須按照此產品規格說明書使用，否則性能和壽命都將受到相當地減少。尤其注意電壓的使用範圍。</p> <p>Please operate the motors in accordance with this specification, especially be careful with the operating voltage ranges, otherwise the performance and lifetime of the motors would be considerably reduced.</p>
6-2	<p>建議馬達收貨後六個月內必須使用。不可以在以下環境中使用及保存馬達：</p> <ul style="list-style-type: none"> ✧ 高溫高濕區域； ✧ 腐蝕性氣體環境，如：H₂S、SO₂、NO₂、Cl₂，等等； ✧ 易導致金屬物生銹場所。 <p>It is suggested to use the motors within 6 months after delivery. It is not allowed to use or store the motors at such environments:</p> <ul style="list-style-type: none"> ✧ High damp and high temperature areas. ✧ Places full of corrosive gas, such as H₂S, SO₂, NO₂, Cl₂, etc. ✧ Areas that easily cause metals rusty.
6-3	<p>注意清潔工作環境，避免含鐵質雜物被馬達吸進，否則馬達將會產生雜訊，性能會受影響，從而降低產品可靠性。</p> <p>Please pay much attention to clean the working environment, to avoid iron sundries from being sucked into the motors; otherwise, the motors would make noise, the performance would be affected, and reliability would be reduced.</p>
6-4	<p>拿馬達時，要輕拿輕放。不允許隨意丟置。</p> <p>Please place the motors gently and carefully in use. It is not allowed to throw it at random.</p>
6-5	<p>機殼鋼板面或邊緣有少許鏽斑是允許的。</p> <p>It is allowed to have a little rust on the brim of steel plate of the housing.</p>
6-6	<p>因為測試設備可能有誤差，所以±5%的轉動頻率偏差是允許的。</p> <p>It is allowed to have a tolerance of ±5% rotation frequency due to discrepancies between different testing equipments.</p>
6-7	<p>用戶自身應確信使用本產品不會與相關標準、法律、政令相背。</p> <p>Users shall assure themselves that they do not violate related standards, laws or any political policies when they use this product.</p>

7. 外形圖 Outline Drawing

