

工研院單相馬達實驗室之建置介紹 與國內外單相檢測標準之比較

The introduction of ITRI single-phase induction motors laboratory building and testing standards comparison of domestic and international single-phase induction motors regulations

陳仁聖

工業技術研究院
機械所
新興能源機械組
能源機械系統工程部

關鍵詞

- 單相感應馬達 single -phase induction motors
- 分相起動 split-phase start
- 電容器起動 capacitor-start induction-run
- 推斥起動 repulsion-start
- 滿載特性 full load characteristics

摘要

工研院低壓單相感應馬達能效測試實驗室之成立宗旨，乃應主管機關經濟部能源局之委託而設立，將擔負起未來國內生產銷售高效率單相感應馬達能源效率測試之公正驗證機構角色。因此軟硬體之設計，完全依據目前國家標準 CNS1057 之要求而建立，並保留將來國際法規 IEC 與 IEEE 法規調和之需要而可擴充之。此外並考慮到現行國際節能減碳之目標，電動汽機車之推行，電動馬達性能開發研究測試所需，並可方便提供業者與研究單位之一個最佳的研究測試服務據點，同時省去了重複建置

成本與負擔。

The set up purpose of ITRI low-voltage single-phase induction motors energy efficiency testing laboratory was established on the commission of Bureau of Energy , Ministry of Economic Affairs, and will take the responsibility as an impartial certification body in the efficiency test for future domestic sales and product of high-efficiency single-phase induction motors. Therefore, its hardware and software designs were developed entirely in accordance with the requirements of current national standard CNS1057, and reserved for the need of regulation expansion for future IEC and IEEE international regulations mutual recognition. In addition, taking into account existing international energy savings and CO₂ reductions targets, the promotion run of electric motor vehicles, and in response to the requirement of research and development of electric motor performance test, we facilitate a best research and testing service base for the provision of industry and research institute, meanwhile

更完整的內容

請參考【機械工業雜誌】345 期・100 年 12 月號

每期 220 元・一年 12 期 2200 元

劃撥帳號：07188562 工業技術研究院機械所

訂書專線：03-591-9342

傳真訂購：03-582-2011

機械工業雜誌官方網站：www.automan.tw