

我们将Envirostart安装在南京商场一个自动扶梯的电动机上，并做出这份报告。该扶梯每年平均运行360天，每天平均14小时。虽然供应电压只有368V，它的电网条件还是很不错。



顶部站台凹槽里的自动扶梯电动机



在这个扶梯上安装是很复杂的，因为这个扶梯的控制系统不仅有倒转的功能，而且额外有一个控制扶梯正常功能的配电箱。（在右边的照片里可以清楚的看见配电箱）

系统原来是全压起动模式，通过一系列接触器开关转换，所有的接触器都在一个电路里，以保证扶梯运行的安全和统一。

如果要将Envirostart永远安装在扶梯上，那么就只能安装在配电箱外部。Envirostart的安装应保留扶梯倒转的功能，维持已有的开关转换系统以及配电箱外部的辅助功能。



从下页的表格可以清楚看到，无论扶梯是否有负载，节能均可达到18%左右。

2005年7月中国南京商场自动扶梯安装报告（平均节能18%，14个月收回成本）



EnviroStart Three Phase G6 Soft Start & MEC Audit Analysis

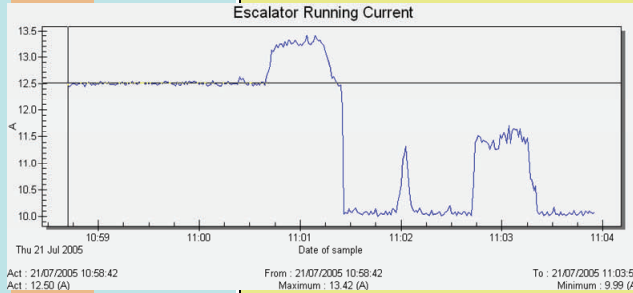
Date: 21.7.2005

Customer: Nanjing Shopping Mall



Application	Motor Identity	MEC Or SS	Motor Plate kW	Motor Plate A	Motor Power in A Meas	Motor Power Factor Meas	Hours Motor Runs/Day On Load	Hours Motor Runs/Day Off Load	Days Motor Runs/Year	Motor Load %	E/Start Std Size	kW/Day Without E/Start	Motor Cost/Day Without E/Start	kW/Day With E/Start	Motor Cost/Day With E/Start	Savings as a %	Savings in £ per day	Savings in £ per year	P/Back in Years	EnviroStart Type Required	Cost of EnviroStart Unit (No Installation)
1 Escalator (Up)	Level 2	MEC	11.0kW	23.0A	12.5A	0.38Pf		14	350	54	11.0kW	104.8kW	£6.82	92.3kW	£6.00	12.0	£0.82	£286.24	1.10	400-TPMEC G6-11	£315
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28	Miscellaneous Costs																				

Shows clear savings in the region of 19%. This would vary dependant on loading however observing the other escalators in the mall loading was rarely more than 3 - 4 people



MEC Savings	Cost of all Units
£286	£315

Summary Information

Total kW of Motors Audited
11.00kW

kW/Year Savings Shown
4.404kW

kW/day Savings Shown on This Sheet
12.58kW

P/B Period in Years
Based on SS & MEC's
1.10 Years

Electricity
Cost/kWh
£0.065

Site Pf
0.94Pf

Site Voltage
368V

Days/Yr Motors Run
Days 350

Hours/Day Motors Run
Hours 14.00

Average Savings/Motor
12.00

P/B Period in Years
Based on MEC's Only
1.10 Years

Report compiled by
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EMS (European) Ltd 25th August 2005

