

For the Trade Press

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**Preliminary trade fair report
Hannover Fair 2007**

Energy-efficient IEC low-voltage motors with aluminum housing

Siemens Automation and Drives (A&D) has developed a new range of IEC low-voltage motors with aluminum housing. The new motors of the 1LE1 series are offered in the efficiency classes EFF1 and EFF2. The energy-efficient EFF1 motors achieve their high efficiency through the use of copper rotors. The motors thus have an extremely compact design and are especially suitable for applications with pumps and fans.

The new 1LE1 motor series with aluminum housing has a power spectrum from 750 watts to 18.5 kW and is available in frame sizes 100 to 160. With these IEC low-voltage motors, energy efficiency takes center stage. The high efficiency EFF1 motors of this series are equipped with copper rotors that enable them to achieve their high efficiency values. This saves up to 40% of power losses compared with a conventional motor.

The motor is easy to install and modify in every frame size. The terminal box is easy to access and the housing architecture allows adaptation to the most varied applications. The terminal boxes can be swiveled in 90° steps, and the motor feet can be flexibly mounted depending on the motor version. An encoder, brake and external fan can be added with minimum effort. The flexible housing architecture results in a reduced variety of parts, simplifying inventory management.

Thanks to the use of copper rotors, the high efficiency EFF1 version of the motors is extremely compact and has the same housing dimensions as the EFF2 version of the

same size. Retrofitting a high efficiency motor can thus happen later without changing the machine design.

In addition to the standard motors of the series, motors with increased output power are also available. With the same shaft height, they offer a full performance class more than the comparable standard motor. The versions with increased output power are also offered in the efficiency classes EFF1 and EFF2.

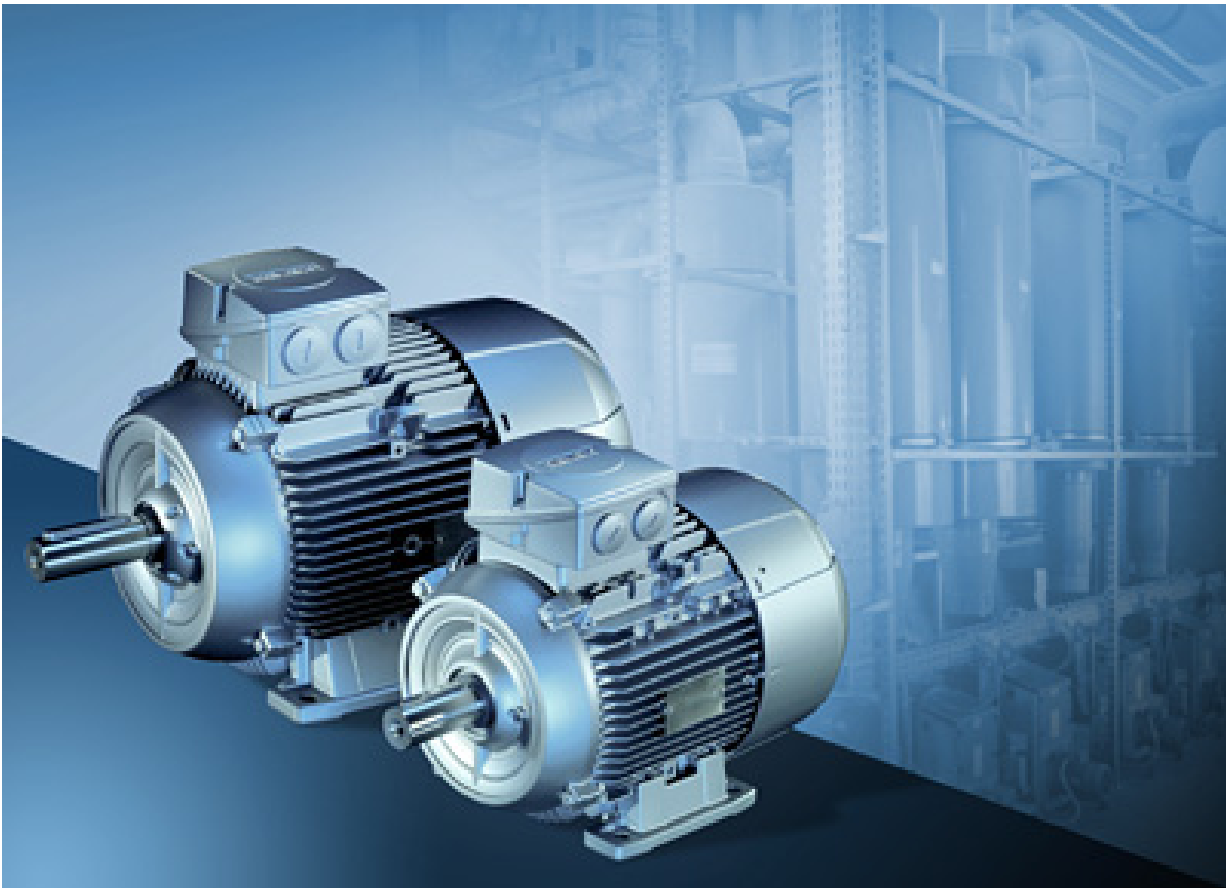
Further information can be found on the Internet at:

www.siemens.com/low-voltage-motors

A picture accompanies this press release. You can find this picture on the Internet at:

www.siemens.com/ad-picture/1410

You can find the text on the Internet at: www.siemens.de/automation/presse



The new IEC low-voltage motors of the 1LE1 series from Siemens A&D are offered in the efficiency classes EFF1 and EFF2. The energy-efficient EFF1 motors achieve their high efficiency through the use of copper rotors. The motors have an extremely compact design and are especially suitable for applications with pumps and fans.

You will find the photo on the Internet at: www.siemens.com/ad-picture/1410

Please phone us if you require a copy of the photo.

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