

For the Trade Press

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**Preliminary trade fair report
Hannover Fair 2007**

New series of geared motors with wide spectrum of motors

At this year's Hannover trade fair, Siemens Automation and Drives (A&D) is showing the new "Flender Motox" series of geared motors. The new series offers an extensive range of motors based on the 1LA7/1LG4/1LG6 motors from Siemens. Depending on the requirements, there are also energy-saving or explosion-proof versions. Due to the respective certifications, the geared motors are certified for the American, European and Asian markets. The geared motors can be supplied with helical, parallel-shaft and bevel helical gears for the power range up to 200 kW and a rated gear torque of up to 20,000 Nm. Versions with helical worm gears have an output up to 11 kW and 1,590 Nm and motors with worm gears up to 1.5 kW and 166 Nm.

The Flender Motox series of geared motors unifies the previously independent SGM series from Siemens and Motox-N series from Flender. The Flender Motox series is characterized by a broad spectrum of motors. The basic motors are Siemens IEC motors of the type 1LA7/1LG4/1LG6. In order to enable direct mounting of the motor on the gearbox, the interface on the drive side has been adapted. The electrical data, i.e. the active parts of the motor, remain identical. With the Modulog principle, i.e. the modular and logically optimized structure of the motor, functional units such as the brake, external fan and encoder are built onto a skeleton motor which always remains the same. This is done with the help of mounting shafts. The motor can thus be fitted with additional functional units even after installation.

The standard motors are in line with the relevant IEC/EN standards. For export to the NAFTA markets, it is possible to select from motors with NEMA specification (National Electrical Manufacturers Association), UL certification (Underwriters Laboratories Inc.) and CSA approval (Canadian Standard Association). For export to China, CCC-certified motors are available on request. Depending on the requirements, energy-saving versions can also be supplied, with certification for the EU in accordance with CEMEP (European Committee of Manufacturers of Electrical Machines and Power Electronics) as well as for the North American market in accordance with EPACT (Energy Policy Act) which is part of US federal law. For operation in areas where there is a risk of explosion, geared motors are available for zones 1 and 2 (gas) as well as 21 and 22 (dust) in accordance with EU directive 94/9/EG.

The gear units can be combined in many different ways thanks to the modular building-block system and can therefore be adapted to the respective application. The dimensions of the gear units are identical to those of the previous Motox-N and SGM series. It is possible to select from a variety of gear types, namely helical, flat, bevel helical and worm gears. The geared motors with helical, parallel-shaft and bevel helical gears have an output of up to 200 kW with a rated gear torque of 20,000 Nm. Versions with helical worm gears have outputs up to 11 kW at 1,590 Nm and motors with worm gears have an output of up to 1.5 kW at 166 Nm. Optional drive groups enable mounting of standard IEC, NEMA and servo motors. Moreover, the gear units are available with a free drive shaft or as a piggy back version. Selection of the geared motors is facilitated by an electronic catalog which contains all the technical data as well as CAD drawings.

Further information at: www.siemens.de/getriebemotoren

This press release is supplemented by a photo which you can view in the Internet at: www.siemens.com/ad-picture/1422

You can find the text in the Internet at: www.siemens.com/automation/presse



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