

Automation and Drives

For the trade press

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Preliminary trade fair report

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High-speed drive with high-efficiency damping oscillation elements

Siemens Automation and Drives (A&D) has added a high-speed version to its N-compact range of low voltage motors. Thanks to forced ventilation and special rotor design, the motor is suitable for the speed range up to 5000 rpm. The intelligent use of oscillation elements with excellent damping properties mechanically isolates the machine from the actual baseplate. This means that, despite the high motor speed, no additional structural provisions are necessary.

The N-compact high-speed motors from Siemens A&D build upon the established series of low-voltage motors, but offer greater efficiency and are compact and require little maintenance. The series covers the voltage classes from 400 through 690 V and is available with outputs between 200 kW and 1050 kW. Especially when combined with the Sinamics G130 and G150 frequency inverters that are particularly suitable for turbo machines, the high-speed motor forms a coordinated drive system.

The N-compact High-Speed is isolated from the baseplate by means of the oscillation elements at the base of the motor which have excellent damping properties. On the one hand, this makes the motor immune to external influences such as vibrations, which pays off particularly at high speeds. On the other hand, this makes the machine independent of the on-site baseplate, i.e. no additional structural expenditure is

necessary. One other positive aspect of this damped mounting is the reduced magnetic induction of sound waves into the foundation which further reduces noise levels.

With speeds of up to 5000 rpm which can be used across the full speed regulating range due to the sub-critical rotor design and forced ventilation, even fast running machines such as high pressure fans, screw compressors or special circulating pumps manage to do without transmission gearing. Relative to the overall unit, this saves space and weight, reduces the maintenance requirements and at the same time contributes to a higher degree of efficiency and reliability.

A picture accompanies this Press Release. You can find this picture on the Internet at: www.siemens.com/ad-picture/1703

The text can be found on the Internet at: www.siemens.com/automation/presse



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