

For immediate release

CPLS: Induction motor for operation with a frequency inverter



Machine tools, test benches, hoisting gear for cranes or travelling cranes, process industries such as metal, plastic and rubber processing, all require variable speed drive systems that can be accommodated in small spaces with high dynamic stresses.

The range of **CMLS square-framed 3-phase induction motors, combined with the new Unidrive M inverter range** fully meets the requirements of the various processes, with the assurance of overall performance of the motor/drive assembly.

To ensure perfect adaptation for use with a frequency inverter (dv/dt withstand), the insulation system of the **CMLS** range has been enhanced **as standard** to prolong its service life.

The **CMLS** range consists of the frame sizes 112, 132, 160, 200 and 250 mm, for stages of operating torques from 95 to 2900 Nm and speeds of up to 10000 rpm, thanks, among other things, to the use of high-speed bearings.

The **CMLS** motor offers both compact IP23-rated construction and separate continuous ventilation independent of the speed of the machine. These construction details allow continuous operation at reduced speeds.

Its great compactness and lack of required maintenance mean that the **CMLS** can be easily fitted into confined and cramped spaces. It is also the ideal solution when wishing to replace existing machines (another DC for example) with an induction motor/frequency inverter assembly.

In certain cases, using a copper squirrel cage rotor or, for high-speed machines, laminations with low magnetic losses, makes it possible to limit the electrical losses and consequently reduce the size of the motors.

As standard, the **CMLS** motor provides a 2:1 speed variation range at constant power, in open- or closed-loop operation.

Combined with the **Constant Power System**, an exclusive process patented by Leroy-Somer, the **CMLS** motor provides **a 4-6:1 operating range at constant power without having to derate the motor or the drive**.

Its flexible design offers many options on the standard version, such as a standard polyester filter or a Miovl regenerative filter, and ensures that the **CMLS** can be adapted, not only to the driven machine, but also to the application and to harsh environments.

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Moreover, an integrated brake from the **FCPL** range can be mounted at the non-drive end of the **CPLS** motor to perform dynamic braking in the event of an emergency stop.

The high performance **CPLS** motor is part of the innovative variable speed solutions offered by Leroy-Somer

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About Emerson:

Emerson (NYSE: EMR), based in St. Louis, Missouri (USA), is a global leader in bringing technology and engineering together to provide innovative solutions for customers in industrial, commercial, and consumer markets around the world. The company is comprised of five business segments: Process Management, Industrial Automation, Network Power, Climate Technologies, and Commercial & Residential Solutions. Sales in fiscal 2012 were \$24.4 billion. For more information, visit www.emerson.com

About Emerson Industrial Automation:

Emerson Industrial Automation, a business of Emerson, is a global technology provider that enables productivity, efficiency and quality gains for customers across a spectrum of industries. Our products include alternators, electric motors and drives, electrical distribution devices and mechanical power transmission, fluid automation and ultrasonic joining solutions. Emerson brands include Appleton, ASCO, Branson Ultrasonics, Browning, Control Techniques, Kop-Flex, Leroy-Somer, McGill, Morse, Numatics, O-Z/Gedney, Rollway, SealMaster, and System Plast. For more information, visit www.EmersonIndustrialAutomation.com

About Leroy-Somer:

Leroy-Somer is one of the world's leading manufacturers in electromechanical and electronic drive systems and the world leader in industrial alternators. A subsidiary of the Emerson Group, Leroy-Somer is a French company which employs 9700 people in 30 production units and 470 sales and service outlets worldwide.

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