

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 new range of **CPLS square-framed 3-phase induction motors**, combined with a **LEROY-SOMER frequency inverter** such as **DIGIDRIVE SK**, **UNIDRIVE SP** or **POWERDRIVE**, fully meets the requirements of the various processes, with the assurance of overall performance of the motor/drive assembly.

The **CPLS** range consists of the frame sizes 112, 132, 160 and 200 mm, for stages of operating torques from 95 to 1600 Nm and speeds of up to 8000 rpm.

The **CPLS** 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 **CPLS** 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 **CPLS** 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 **CPLS** motor provides a 4-6:1 **operating range at constant power without having to derate the motor or the drive.**

Its flexible design, with many options available on the standard version, means that the **CPLS** can be adapted, not only to the driven machine, but also to the application and difficult surroundings.

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 **CPLS** motor drive, with its high performance level, benefits from the latest technologies. It is **one of the variable speed drive solutions from LEROY-SOMER.**

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