

**LSMV**



## Motor for variable speed drive systems

The advances in variable speed requirements applied to asynchronous motors led **LEROY-SOMER** to develop a complete range of motors specially designed **to be supplied via electronic inverters with the assurance of performance:**

- By optimising the operation **at constant torque down to 10% of the rated speed**, without de-rating or forced ventilation,
- By boosting acceleration without increasing the frame size over the whole range.

**A flexible design concept, LSMV** makes it possible to build solutions which perfectly match the application requirements, thanks to a **complete range of options** (incremental or absolute encoder, brake, bearing sensor, forced ventilation, single or combined, standard or customized external finish), whether it is used as a motor or a geared motor.

**LSMV** is a motor with a standard frame size; therefore it can be **interchangeable** with a fixed speed motor of the same power rating, keeping the same mechanical features, conforming to the IEC standard.

Perfectly meeting the latest requirements of variable speed, **LSMV** is a product born of experience whose technical criteria defined by **LEROY-SOMER** offer the following advantages :

- **Energy savings** (increased efficiency)
- **Reduced maintenance** (enhanced durability of the rotation mechanism)
- **Reduced noise level** (use of cast iron end shields at both drive end and non-drive end)
- **Extended life** (choice of balancing and concentric design)
- **Powerful dynamics** (high torque both at startup and over the whole speed range)
- **Maximum operating safety** (thermal protection included).

The **LSMV**, whose power ranges from 0,18 to 132 kW, is the basis for a wide range of motors for variable speed control:

- **PLSMV**: Aluminium housing motors with IP23 protection
- **FLSMV, FLSCMV**: Cast-iron housing motors with several levels of mechanical protection.

The **LSMV** motor range is integrated into the **LEROY-SOMER** service package offering short or specially arranged lead times, based on a system where the customer fixes his own dispatch date: **the Guaranteed Availability**.