

## Stator-rotor assemblies



### Motors for hermetic and semi-hermetic compressors

**L**eroy-Somer, a specialist in industrial electrical motors, has been manufacturing stator/rotor assemblies for hermetic and semi-hermetic refrigeration compressors for more than 30 years.

The electrical and mechanical performance levels required for driving refrigeration compressors are particularly demanding: high efficiency, low slip, low vibration and noise levels, high specific output power, etc. **Leroy-Somer** has therefore set itself the goal of supporting all the market players by offering motors with performance levels specially designed to obtain the best possible COP (Coefficient Of Performance) regardless of the compressor technology (screw, scroll, piston or centrifugal).

In addition, these motors must be very reliable, given the difficulty, not to say impossibility, of accessing a motor inside a compressor.

Manufactured at a production site with ISO 9001 and 14001 Ed. 2004 accreditation, the **Leroy-Somer** stator/rotor assemblies use special, UL-certified components (PEEK, DAGLASS or KAPTON enamelled wire, special insulation, etc) which satisfy the most severe operating requirements (high temperatures, freons, oils, etc).

In anticipation of future trends in efficiency standards, **Leroy-Somer** has developed **variable speed asynchronous and synchronous solutions** for its range of stators/rotors for hermetic and semi-hermetic refrigeration compressors. These D.C. geared motor solutions can be used to obtain high performance levels while reducing energy consumption.

Due to their specific conditions of use, the manufacturing process for these motors is subject to numerous regulations and inspections designed to ensure a high level of quality and optimum reliability.

### **Technical characteristics of the range:**

- 2 and 4-pole
- Power ratings: 20 to 400 HP at 50 Hz
- Stator diameters between 223 and 395 mm, corresponding to international market standards
- All starting types (Y  $\Delta$ , part winding,  $\Delta$ ) so they can be used with any voltage anywhere in the world
- Compatibility with all cooling agents (R22, R134A, R407C, R410A, etc) and mineral and organic oils

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