Know-how & Expertise

Reliability and service life

The reliability of Leroy-Somer solutions is due to proven and tested construction choices, including:

- Balancing classes that significantly reduce internal vibrations
- Electrical and mechanical dimensioning incorporating a thermal reserve to increase the service life of the windings
- Special surface treatments for increasing resistance to harsh environments
- Very high degree of concentricity of the bearing unit to increase the service life of the bearings
- High-efficiency solutions that reduce the temperature rise in the motors and increase their service life

Tried and tested technologies

To meet the expectations of manufacturers, operators and engineers, Leroy-Somer is at the forefront of fixed or variable speed drive technologies.

Leroy-Somer solutions guarantee optimum torque performance, fully matching application requirements.

The electrical and mechanical dimensioning of auxiliary drive systems allow machines to be installed in confined spaces.

Permanent magnet drive system solutions, integration of control electronics, and the choice of liquid cooling are alternatives for achieving still higher levels of compactness.

www.leroy-somer.com

International network

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LEROY-SOMER INTERNATIONAL DIVISION

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LEROY-SOMER PTY LTD

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LEROY-SOMER ELEKTROMOTOREN

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LEROY-SOMER BELGIUM

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LEROY-SOMER DIVISION
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LEROY-SOMER DIVISION
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en - 2011.04 / c

LEROY SOMER®

EMERSON™
Industrial Automation

Leroy-Somer reserves the right to modify the characteristics of its products at any time in order to incorporate the latest technological developments.
The information contained in this document may therefore be changed without prior notice.

338 567 258 RCS ANGOULÊME - S.A. au capital de 62 779 000 €

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LEROY SOMER®

AUXILIARY DRIVE SYSTEMS FOR WIND TURBINES

0.25 to 11 kW

TRIED AND TESTED DRIVE SYSTEMS FOR DEMANDING APPLICATIONS

ISO 9001

UL

ISO 14001

Leroy-Somer, a world specialist in alternators and drive systems

Leroy-Somer is a recognised expert in the design and production of wind turbine generators of up to 5 MW, and is also a major player in the design and manufacture of tower crane orientation systems.

This combination of know-how and wealth of experience explains Leroy-Somer's increasing share in the market for special application drive systems for wind turbine auxiliary equipment.

The involvement of the R&D departments results in innovative and reliable solutions meeting the requirements of this sector.

With its industrial sites in Europe, North and South America and Asia, Leroy-Somer is well-placed in high-growth markets for supporting its customers' international development.

With the strength of its 10,000 employees behind it, the company has set up an international network of 470 expertise and service centres capable of providing sales and technical support throughout the world.

- *38 industrial sites throughout the world*
- *470 centres of expertise and service*

"Pitch": orientation of the blades
- Motors for hydraulic power units
- Brake motors for mechanical drive

Lubrication
- Oil pump motors for lubrication of the gearbox
- Fixed or variable speed drive

Cooling
- Fan motor for generator cooling circuit
- Fixed or variable speed drive

Ventilation of the nacelle
Motors and motorised fans for air treatment or temperature control

"Yaw": orientation of the nacelle
Brake motor for the nacelle orientation movement

Fixed speed motors

- **High efficiency**
- **Single or dual speed, ventilated or non-ventilated**
- **High specific output power solutions**
- **Reduced risks of condensation**
- **Increased corrosion resistance**

Integrated variable speed motors

- **Torque control and stability at low speed**
- **Energy saving**
- **Electronics integrated with the motor**
- **50/60 Hz universal solution**
- **Electronics moulded in resin**

Brake motors

- **Motor technology suited to the transient phases generated by the orientation movement**
- **Choice of braking torque and brake inertia for protecting the orientation mechanics**
- **Increased corrosion resistance**
- **Adapted for different power supply voltages**