

Expert services in drive systems energy optimisation



► Eco-Responsible Maintenance

- Carrying out repairs without loss of efficiency
- Promoting high efficiency solutions
- Protecting the environment



► Expertise in Energy Optimisation

- Identifying potential applications
- Analysing and evaluating potential savings
- Recommending a solution
- Carrying out installation
- Monitoring and maintaining performance

Making quick savings in applications

- Centrifugal applications: pumping, ventilation
- Applications with mechanical regulation: dampers, sluice valves and slide valves for compressors
- Applications accumulating a high installed power
- Applications operating in continuous duty
- Applications restoring energy through braking resistors: centrifuges, lifting, winding, unwinding
- Applications where mechanical design has resulted in poor efficiency



International network

www.leroy-somer.com

ALGERIA
MOTEURS LEROY-SOMER
INTERNATIONAL DIVISION (FRANCE)

AUSTRALIA
LEROY-SOMER PTY LTD

AUSTRIA
LEROY-SOMER MARBAISE GMBH (GERMANY)

BELGIUM
LEROY-SOMER SA

BRAZIL
LEROY-SOMER DIVISION
EMERSON ELECTRIC DO BRASIL LTDA.

CANADA
LEROY-SOMER / CIM

CHINA
EMERSON TRADING (SHANGHAI) CO LTD

CROATIA
EMERSON NETWORK POWER LTD

CZECH REPUBLIC
M.L.S. HOLICE SPOL SRO

DENMARK
LEROY SOMER DANMARK A/S

EGYPT
MOTEURS LEROY-SOMER
INTERNATIONAL DIVISION (FRANCE)

FRANCE
MOTEURS LEROY-SOMER

GERMANY
LEROY SOMER MARBAISE GMBH

GREECE
LEROY SOMER LTD

HUNGARY
IMI kft

INDIA
LEROY-SOMER DIVISION
EMERSON ELECTRIC CO

ITALY
LEROY SOMER SPA

JAPAN
LEROY-SOMER DIVISION
EMERSON JAPAN LTD

KOREA
LEROY-SOMER DIVISION
EMERSON ELECTRIC (KOREA) LTD

MOROCCO
CARREFOUR INDUSTRIEL ET TECHNOLOGIQUE

NETHERLANDS
LEROY-SOMER BV

POLAND
FZN MARBAISE LS SP ZOO

ROMANIA
LEROY-SOMER DIVISION
EMERSON SRL

RUSSIA
LEROY-SOMER DIVISION
EMERSON LLC

SAUDI ARABIA
ABUNAYYAN TRADING CORPORATION

SINGAPORE
LEROY-SOMER SOUTHEAST ASIA PTE LTD

SOUTH AFRICA
LEROY SOMER PTY LTD

SPAIN
LEROY SOMER IBERICA S.A.

SWEDEN
LEROY-SOMER NORDEN AB

SWITZERLAND
LEROY-SOMER SA

TAIWAN
MOTEURS LEROY-SOMER (FRANCE)
LIAISON OFFICE
C/O EMERSON (TAIWAN) CO LTD

THAILAND
LEROY-SOMER DIVISION
EMERSON (THAILAND) LTD

TUNISIA
ULYSSE SPARE PARTS

TURKEY
LEROY-SOMER ELEKTROMEKANIK SISTEMLER
TICARET LTD STI

U.A.E.
LEROY-SOMER DIVISION
EMERSON FZE

UNITED KINGDOM
LEROY SOMER LTD

USA
LEROY-SOMER POWER AND DRIVES
EMERSON ELECTRIC CO

VENEZUELA
LEROY-SOMER DIVISION
EMERSON VENEZUELA CA



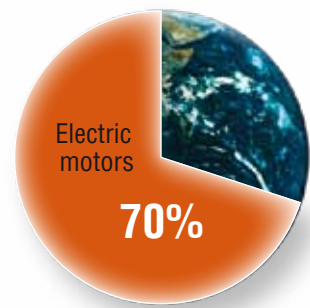
Controlling energy
in motorised applications

Energy savings, these concern everyone!

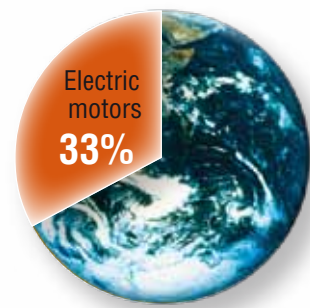
Saving energy is becoming an economic necessity and an obligation for preserving the future of the planet.

It concerns the whole of industry: electric motors account for almost 70% of the power consumption in industry and over 33% in the service sector.

Drive systems represent a source for major savings.



Industry

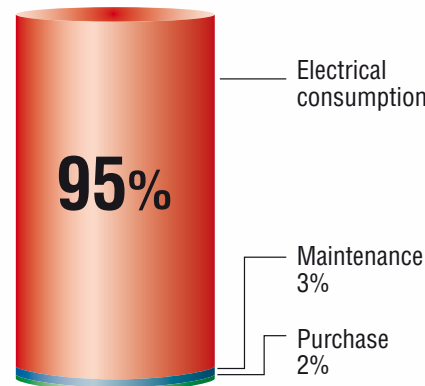


Service sector

Global electricity consumption

The purchase price of a motor and its maintenance cost are negligible over 10 years. This is because power consumption accounts for over 95% of the total cost!

It is therefore important to reduce the energy bill for existing installations by investing in technologies that are less greedy in terms of electricity.



Total cost of an induction motor over 10 years



Save kWh on your drive systems

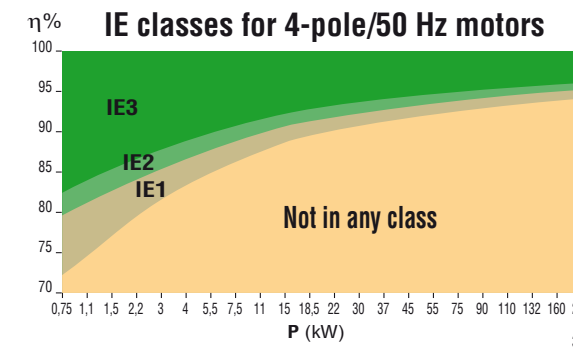
! Increase the efficiency of fixed-speed motorised applications

INDUCTION MOTORS

Leroy-Somer will reduce your power consumption with ranges of high-efficiency induction motors conforming to classes IE2 and IE3, in accordance with reference standard IEC 60034-30.



High-efficiency ranges
LES - FLES - PLSES



GEARED MOTORS

For fixed or variable speed drives, Leroy-Somer offers the new generation high-efficiency 3000 ranges. These ranges, with coaxial, parallel or orthogonal output, are designed to optimise the transmission, according to the application and mechanical abilities of the machine.

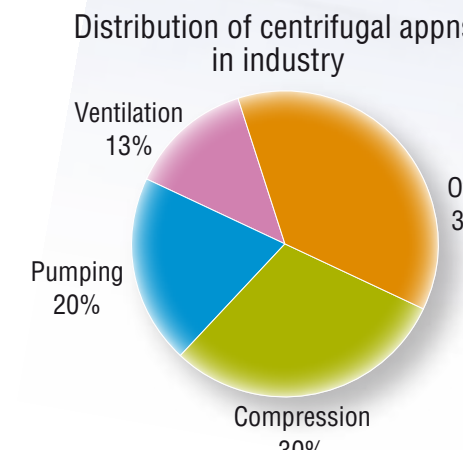


- Choice of motor technology
 - + Study and optimisation of the transmission
 - + Choice of gearbox technology
 - + Appropriate maintenance of the drive systems
- = Up to 40% savings on my power consumption!

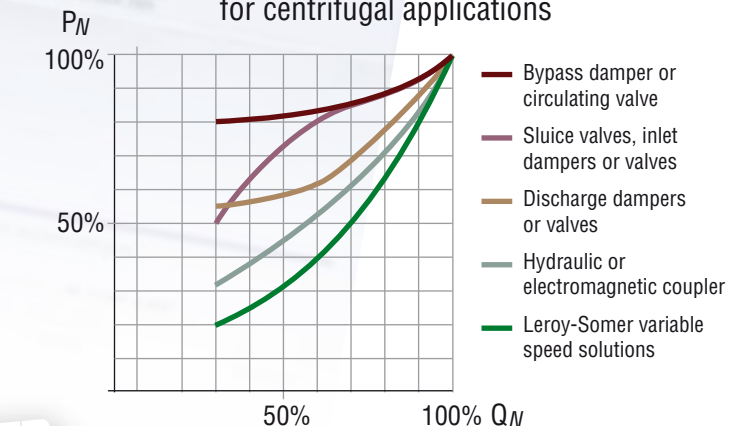
! Increase the efficiency of motorised applications, by variable speed solutions

Solutions using Leroy-Somer variable speed drive systems bring:

- Immediate financial savings on your power consumption
- Better supply agreement terms from energy suppliers
- An increase in your productivity
- Reliability of your processes, through the elimination of surges and slip, integrated motor protection, storing and monitoring of events and maintenance management.



Comparison of different regulation systems for centrifugal applications



- Removal of mechanical regulation to increase the efficiency of centrifugal applications
 - Consumption optimised according to machine requirements
 - Recovery of kW on the mains supply in braking phases
 - + Savings on my reactive current bill
 - Removal of penalties by increasing the power factor
 - + Savings on my supply agreement
 - Decrease in startup peaks
- = Up to 40% savings on my power consumption!

