

ATEX DUST ATEX GAS



With its 10,000-strong workforce, Leroy-Somer has created an international network of 470 centres of expertise and service capable of offering you the sales support and technical assistance you need, 24 hours a day, 7 days a week, worldwide.

To reinforce its commitment to the Oil & Gas, Chemicals and Pharmaceuticals markets, Leroy-Somer has assembled a highly qualified, multidisciplinary team to undertake global project management.

Although not affected by the European ErP Directive governing the efficiency of asynchronous motors, the majority of our ATEX drive systems are available in an IE2 efficiency class version (conforming to IEC 60034-30), either as standard or as an option, allowing significant energy savings to be made.

A particular strength of Leroy-Somer is its ability to supply a wide range of ATEX products within guaranteed short delivery times.

Product availability

> **More than 10,000 references, up to 75 kW, with short delivery times guaranteed**



Product selection

> **A unique solution: the Leroy-Somer configurator**

- available in 15 languages
- create data sheets
- print outline dimension drawings
- edit 2D or 3D CAD files
- register online at www.leroy-somer.com

Online
selection



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

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

NETHERLANDS
LEROY-SOMER BV

POLAND
FZN MARBAISE LS SP ZOZ

ROMANIA
LEROY-SOMER DIVISION
EMERSON SRL

RUSSIA
LEROY-SOMER DIVISION
EMERSON LLC

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

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



**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.

Moteurs Leroy-Somer SAS - RCS 338 567 258 ANGOULÊME - Capital de 65 800 512 €

EMERSON
Industrial Automation



**LEROY
SOMER**

**High efficiency drive solutions
for explosive atmospheres (ATEX)**

Gas - Dust

ATEX DUST - Motors and Geared motors

0.18 to 400 kW - Surface temperature 125°C

Presence of an Explosive Atmosphere:

Zone 22 Accidental

Zone 21 Intermittent

Zone 0 Continuous

ATEX marking: Ex II 3D 2D 1D

Explosive Atmospheres Legend:

- Da
- Db
- Dc
- EPL
- A III B C

EXPLOSIVE ATMOSPHERES

European and International standards

- IEC/EN 60079-0: General requirements
- IEC/EN 60079-31: Equipment dust ignition protection by enclosure "t"

International standard IEC/EN 60079-10-1 & 2 defines the hazardous areas according to the risk of encountering an explosive atmosphere.

Conforming to European Directive ATEX 94/9/EC

Products:

- LSes/FLSES/VARMECA/FCR brake
FLSES/FLSPX/VARMECA/FCR brake
IP55 motors
Ex tc III B T125°C Dc
- ORTHOLOC 3000
IP55 geared motors
Ex tc III B T125°C Dc
- LSPX/FLSPX/VARMECA/FCR brake
IP65 motors
Ex tb III C T125°C Db
- LSPX/FLSPX/VARMECA/FCR brake
IP65 geared motors
Ex tb III C T125°C Db

ATEX GAS - Motors

0.55 to 400 kW - Temperature classes T3, T4 or T5

Presence of an Explosive Atmosphere:

Zone 2 Accidental

Zone 1 Intermittent

Zone 0 Continuous

ATEX marking: Ex II 3G 2G 1G

Explosive Atmospheres Legend:

- Ga
- Gb
- Gc
- EPL
- A II B C

EXPLOSIVE ATMOSPHERES

European and International standards

- IEC/EN 60079-0: General requirements
- IEC/EN 60079-1: Flameproof enclosure "d"
- IEC/EN 60079-7: Increased safety "e"
- IEC/EN 60079-15: Non-sparking "n"

International standard IEC/EN 60079-10-1 & 2 defines the hazardous areas according to the risk of encountering an explosive atmosphere.

Conforming to European Directive ATEX 94/9/EC

Products:

- LSN/FLSN
Non-sparking motors
Ex nA II C T3 Gc
- LSE/FLSE
Increased safety motors
Ex e II C T3 Gb
- FLSD
Flameproof motors
Ex d II B T4 Gb

ATEX GAS - Geared motors

250 to 23,000 N.m - Temperature classes T3 or T4

Presence of an Explosive Atmosphere:

Zone 2 Accidental

Zone 1 Intermittent

Zone 0 Continuous

ATEX marking: Ex II 3G 2G 1G

Explosive Atmospheres Legend:

- Ga
- Gb
- Gc
- EPL
- A II B C

EXPLOSIVE ATMOSPHERES

European and International standards

- IEC/EN 60079-0: General requirements
- IEC/EN 60079-1: Flameproof enclosure "d"
- IEC/EN 60079-7: Increased safety "e"
- IEC/EN 60079-15: Non-sparking "n"

International standard IEC/EN 60079-10-1 & 2 defines the hazardous areas according to the risk of encountering an explosive atmosphere.

Conforming to European Directive ATEX 94/9/EC

Products:

- Ot 3000
Helical bevel geared motor
Integral mounting
Non-sparking motor
Ex nA II C T3 Gc
- Cb 3000
Helical geared motor
Universal mounting
Flameproof motor
Ex d e II C T4 Gb
- Mub 3000
Helical geared motor
Integral mounting
Increased safety motor
Ex e II C T4 Gb