

Special types of construction

With long experience of D.C. machines, modelling tools and modular design, Leroy-Somer is well-placed to cope with the restrictions of integration in machines.



The answer to Applications

Mentor MP is Leroy-Somer's new generation of D.C. drives. Numerous combinations are now available, along with simultaneous management of integrated options

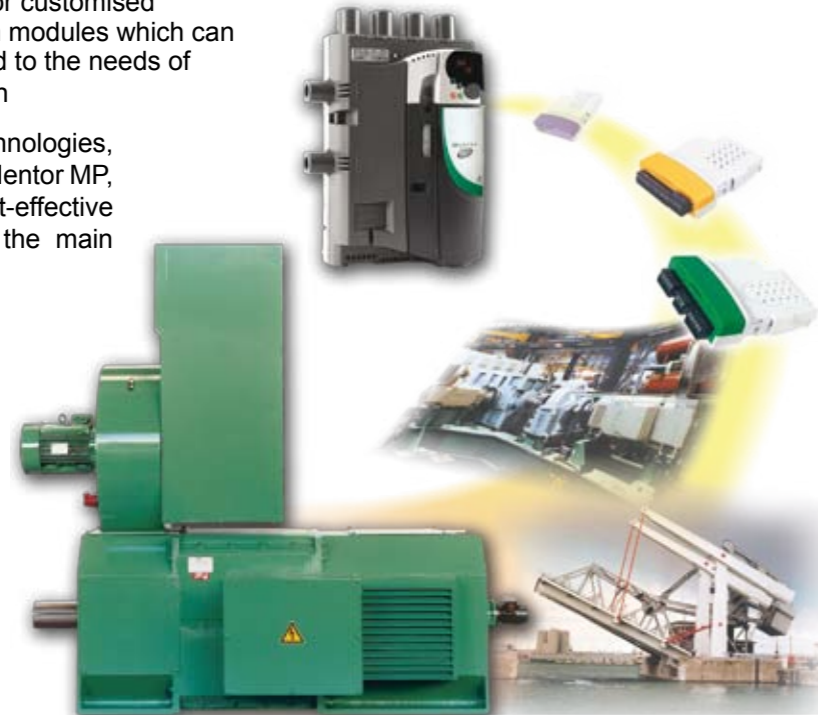
- Digital and analogue I/O
- Relative and absolute speed feedback
- Fieldbus: Ethernet, Profibus, etc.
- Standard or customised application modules which can be adapted to the needs of Automation

With numerous features using the latest technologies, consistent with other Leroy-Somer products, Mentor MP, in conjunction with the LSK motor, offers a cost-effective solution by integrating control systems for the main conventional industrial applications:

- Winding - unwinding
- Hoisting
- Extrusion
- Regulation of high inertia
- Test benches, etc.

The installation is quick to set up using the associated software package or an alphanumeric keypad

- Autocalibration of the motor characteristics
- Display of the physical values



ALGERIA
LERROY-SOMER International Division
(+33) 5 45 64 45 36
algeria@leroy-somer.com

AUSTRALIA
LERROY-SOMER PTY LTD
(+61) 2 96 74 84 00
australia@leroy-somer.com

AUSTRIA
LERROY-SOMER ELEKTROMOTOREN Gmbh
(+43) 3 15 23 95 57
austria@leroy-somer.com

BELGIUM
LERROY-SOMER BELGIUM
(+32) 1 528 10 10
belgium@leroy-somer.com

BRAZIL
LERROY-SOMER DIVISION
EMERSON ELECTRIC DO BRASIL Ltda.
(+55) 11 36 18 65 70
brazil@leroy-somer.com

CANADA
LERROY-SOMER / EMC
(+1) 514 332 1880
canada@leroy-somer.com

CHINA
LERROY-SOMER Division
(+86) 21 5426 0668
china-shanghai@leroy-somer.com

CROATIA
Emerson Network Power Ltd
(+385) 1 560 3878
croatia@leroy-somer.com

CZECH REPUBLIC
M.L.S. HOLICE S.R.O.
(+420) 58 51 05 200
czech.rep@leroy-somer.com

DENMARK
LERROY-SOMER DENMARK A/S
(+45) 6314 1463
denmark@leroy-somer.com

EGYPT
LERROY-SOMER
(+20) 23 301 51 30
egypt@leroy-somer.com

FINLAND
LERROY-SOMER FINLAND OY
(+358) 9 2536 6600
finland@leroy-somer.com

FRANCE
LERROY-SOMER
Bd Marcellin Leroy
16015 Angoulême Cedex
(+33) 05 45 64 45 64
www.leroy-somer.com

GERMANY
LERROY-SOMER Marbaise GmbH
(+49) 69 780 7080
germany-frankfurt@leroy-somer.com

GREECE
LERROY-SOMER Ltd
(+30) 210 57 86 086
greece@leroy-somer.com

INDIA
LERROY-SOMER C/O EMERSON ELECTRIC CO.
(+91) 22 66 94 27 11
india@leroy-somer.com

ITALY
LERROY-SOMER
(+39) 02 93 57 91
italy-milan@leroy-somer.com

JAPAN
LERROY-SOMER DIVISION
EMERSON Japan Ltd.
(+81) 3 5403 8572
japan-tokyo@leroy-somer.com

KOREA
EMERSON ELECTRIC KOREA
(+82) 2 3483 1607
south-korea@leroy-somer.com

LERROY-SOMER NORTH AMERICA
(+1) 731 967 3000
alternators-usa@leroy-somer.com

MOROCCO
CARREFOUR INDUSTRIEL ET TECHNOLOGIQUE
(+212) 22 35 49 48
morocco@leroy-somer.com

NETHERLANDS
LERROY-SOMER NEDERLAND B.V.
(+31) 34 635 70 00
netherlands@leroy-somer.com

NORWAY
LERROY-SOMER NORGE A/S
(+47) 66 76 11 10
norway@leroy-somer.com

POLAND
FZN MARBAISE LS
(+48) 61 87 43 735
poland@leroy-somer.com

PORTUGAL
LERROY-SOMER MOTORES
(+351) 2 1 303 15 70
portugal@leroy-somer.com

ROMANIA
LERROY-SOMER REPRESENTATIVE OFFICE
(+40) 21 206 2570
romania@leroy-somer.com

RUSSIA
LERROY-SOMER DIVISION
LLC EMERSON
(+7) 495 981 98 11
russia@leroy-somer.com

SAUDI ARABIA
ABUNAYYAN TRADING CORPORATION
(+966) 1 477 91 11 - Ex
saudi-arabia@leroy-somer.com

SINGAPORE
LERROY-SOMER SOUTHEAST ASIA Pte Ltd
(+65) 6 266 17 26
singapore@leroy-somer.com

SOUTH AFRICA
LERROY-SOMER PTY LTD
(+27) 11 455 6212
south-africa-johannesburg@leroy-somer.com

SPAIN
LERROY-SOMER IBERICA S.A.
(+34) 943 630 139
spain-irun@leroy-somer.com

SWEDEN
LERROY-SOMER NORDEN AB
(+46) 8 554 241 00
sweden@leroy-somer.com

TAIWAN
LERROY-SOMER LIAISON OFFICE
(+886) 2 2 325 95 55
taiwan@leroy-somer.com

THAILAND
LERROY-SOMER THAILAND
(+66) 2 954 4581
thailand@leroy-somer.com

TUNISIA
ULYSSE SPARE PARTS
(+216) 7 1 336 273
tunisia@leroy-somer.com

TURKEY
LERROY-SOMER
ELEKTROMEKANIK SISTEMLER
(+90) 216 577 3107
turkey@leroy-somer.com

U.A.E.
LERROY-SOMER DIVISION
EMERSON FZE
(+971) 4 8838 650
emirates@leroy-somer.com

UNITED KINGDOM
LERROY-SOMER LTD
(+44) 20 86 10 60 25
(+44) 1695 554 100
uk-uxbridge@leroy-somer.com
uk-skelpersdale@leroy-somer.com

USA
LERROY-SOMER POWER AND DRIVES
(+1) 314 553 2683
motorsanddrives-usa@leroy-somer.com

VENEZUELA
LERROY-SOMER C/O EMERSON ELECTRIC CA
(+58) 212 203 06 84
venezuela@leroy-somer.com



LSK
D.C. solutions
2 to 750 kW

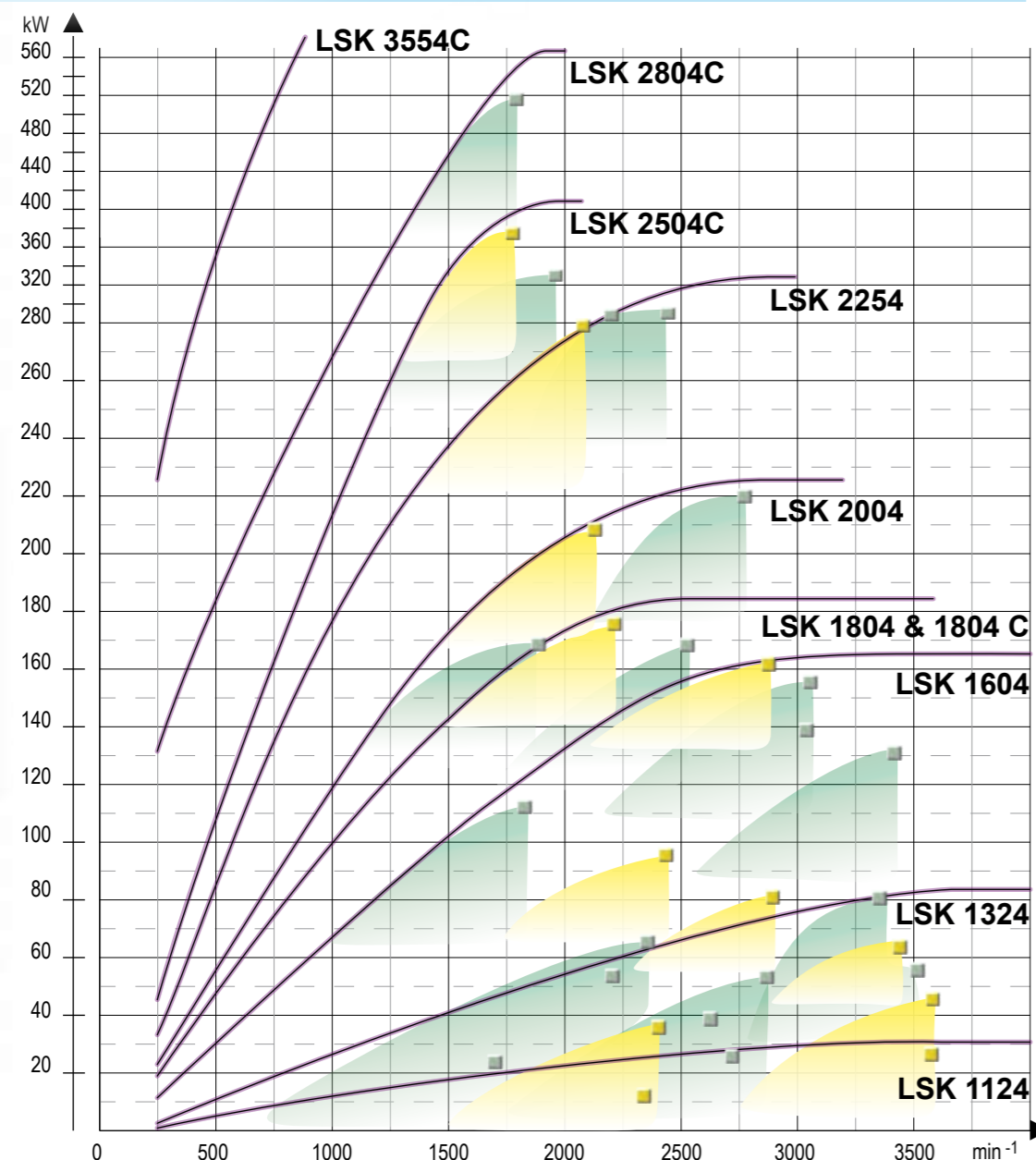
The D.C. offer ...

... over 50 years' experience!

Confident in its longstanding high-performance range of LSK D.C. motors from 2 to 750 kW, Leroy-Somer has set up an industrial organisation which meets the requirements of its customers in terms of delivery times and construction.

Three levels of Service are available:

- Dispatch within 24 hours: This covers the great majority of requirements for urgent repair thanks to the judicious selection of 12 part numbers*
- Dispatch of special products within 10 days by setting up a fast assembly centre using 18 standard part numbers*
- Delivery to be agreed for any special manufacture according to specification



* Selection & motor characteristics: refer to the technical catalogue reference 3805.

Modularity and availability

Protection

- ▶ IP 23S, IP 44R
- ▶ IP55R
- ▶ IP55 with exchangers:
 - air/air
 - air/water

Bearings

- ▶ Standard ball bearings
- ▶ Roller bearings
- ▶ Ball bearings with grease nipple (Frame size <180)

Main shaft extension

- ▶ Standard
- ▶ Special

Mounting

- ▶ Foot, Standard flange
- ▶ Foot & standard flange
- ▶ Special flange
- ▶ Non-IEC dimensions

Mounting positions *

IM 1001	IM 3001	IM 3011	IM 2011
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IM 1051, IM 1061, IM 1071, IM 1011, IM 1031, IM 2001, IM 2031, IM 3031

*Availability depending on frame size

Windings

- ▶ Field voltage:
 - 180/360 V
 - Other

Thermal detection

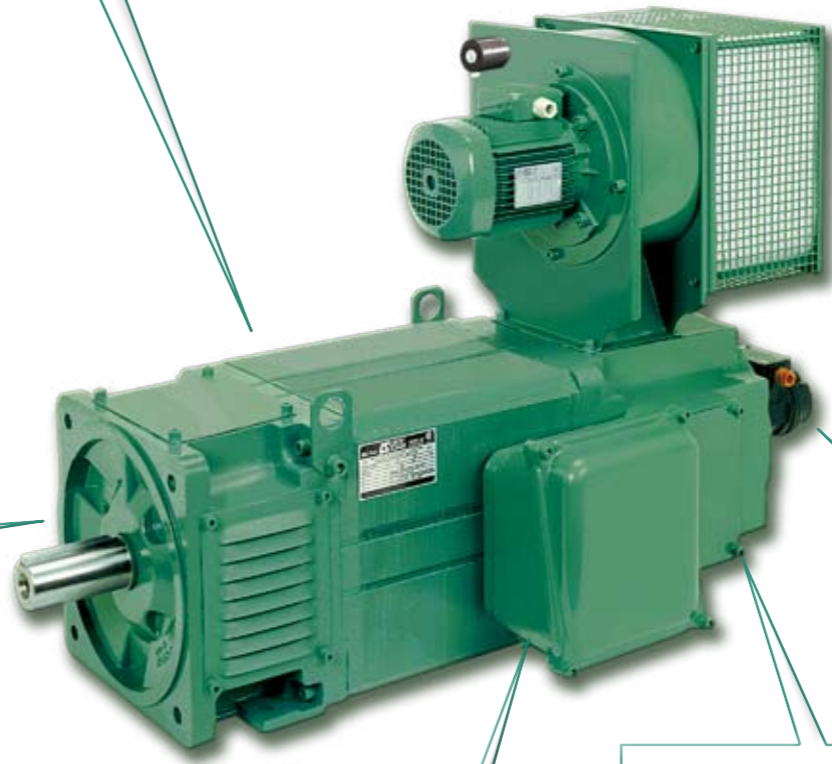
- ▶ PTC
- ▶ PTO, 2nd set of probes

Adaptation to the environment

- ▶ TC impregnation
- ▶ Space heaters

Forced ventilation

- ▶ Radial
Possible positions: D, A, B
- ▶ Axial
- ▶ Standard filter
- ▶ Renewable filter
- ▶ Stopped air flow detector
- ▶ Sound screen



Terminal box positions

Brush wear limit sensor

Key to delivery times

- 24 hours
- 10 days
- To be agreed

Sensor

- ▶ D.C. tachogenerator 60 V 1000 min⁻¹
- ▶ 1024 ppt encoder

Support & coupling for mounting a speed detector

2nd shaft extension

Mechanical brake:

- ▶ without speed detection
- ▶ with speed detection