

## Variable speed drive



MENTOR 

LSK

## The high-performance DC solution!

The DC market is still very active and **LEROY-SOMER** has been innovating in these technologies for more than thirty years. Now, **LEROY-SOMER** offers a **variable speed drive** solution: **Mentor MP** with a **very high-performance LSK motor** to satisfy requirements for increased productivity, energy savings and reduced maintenance costs. With **Mentor MP**, equipment can easily be integrated in communication networks. The **longevity** of DC installations is thus assured.

### Guaranteed Availability

In conjunction with **Mentor MP**, the **Guaranteed Availability** and **Fast Assembly Centre** service offer for **LSK** DC motors makes **LEROY-SOMER** an ideal partner for new or existing installations.

**Mentor MP** is available from **25 to 1850 A**, and up to **7400 A** by connecting modules in parallel. The power supply ranges are 24 to 480, 575 or 690 V AC. Digital excitation control is integrated up to 20 A.

**LSK motors** from **2 to 750 kW** for a speed range up to 4000 rpm develop torque of between 50 and 6600 N.m. The frame sizes available range from 112 to 355 mm. The optimised specific output power allows it to be very **compact** while coping with the constraints of the process: up to 200% overload capacity and high radial loads.

## Flexibility

Inheriting the **Unidrive SP's** control platform, **Mentor MP** is the first DC drive to have a **built-in programmable automation** controller. Its capacity for interfacing with standard communication protocols make it the most advanced on the market: **Profibus**, **DeviceNet**, **Ethernet**, **Ethernet IP**, etc.

The flexibility of the I/O and speed feedback modules meets the requirements for reliability, interchangeability and remote access to industrial processes.

**Mentor MP** offers a solution which integrates the automation systems used in the main industrial applications such as **winding** and **hoisting**.

## Simplicity

Set-up is easy thanks to the user interface and dedicated menus. Parameters can be stored and transferred using the **Smartcard**. The **CT Soft** and **CT Scope** software suite can be used for **optimisation**, **supervision** and **migration** between generations.

The new **Mentor MP's** mechanical and electrical technology ensures **total interchangeability** with the existing DMV range.

## Economy

DC technologies are not being routinely transferred to asynchronous or synchronous solutions because of the impact of the economic situation and our expertise in existing DC technology. The universality and flexibility of **Mentor MP** combined with the modularity of the **LSK motor** offer the DC market a completely new **energy-saving solution** over a wide range of industrial applications which can provide a very good return on investment.

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