

DYNABLOC

Servo gear motors



GENERAL CHARACTERISTICS

LEROY-SOMER's gear range which can work with various electric motor technologies has just been enhanced with a new solution:

self-synchronising servo motors.

Servo motors in the **SMV UM** series that are assembled on gears benefit from the latest technological advances. These motors provide a particularly innovative solution : an aluminium housing whose fins are at 45°, allowing a thermal capacity increase of 100% compared to a normal housing in cast aluminium.

The **SMV-UM**'s have speeds of 2000 or 3000 mn-1. They have a maximum torque up to 200 Nm and a permanent torque up to 66 Nm before stalling.

LEROY-SOMER's **DYNABLOC** servo gear motors have been designed to operate with **LEROY-SOMER**'s range of electronic inverters. This is an additional guarantee of high performance for the customer, and facilitates maintenance and after-sales service.

Special program cards developed by **LEROY-SOMER** can be integrated in the inverters, which make complex positioning movements, synchronisation, electronic cams, and winding / unwinding easy to achieve and manage.

SMV-UM servo motors can be directly connected to the following gears:

- **COMPABLOC** : helical with axial output
- **ORTHOBLOC** : helical with conical coupling and right-angle output
- **MANUBLOC** : shaft mount
- **MULTIBLOC** : worm gears with right-angle output

Depending on the type, reduction ratios are from 1.25 to 200 for output torque up to 2500 Nm.

These servo gear motors are particularly well adapted in the case of an energy drive where precision is compatible with standard backlash from 12' to 30' (depending on the type of gear). In those cases requiring low backlash, **LEROY-SOMER** offers special gears with backlash from 1' to 12'. **DYNABLOC** servo gear motors with standard backlash can be utilised in textile machines, handling, packaging, printing machines, overhead cranes, stacker trucks, etc.