Asynchronous Servo Gearmotors
DRL71 – 225 Servomotors
with R, F, K, S, W Gear Units
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1 Introduction

1.1 The SEW-EURODRIVE Group of Companies

Global presence

Driving the world with innovative drive solutions for all branches and for every application. Products and systems from SEW-EURODRIVE are used in a multitude of applications worldwide. Be it in the automotive, building materials, food and beverage or metal-processing industry - the decision to use drive technology "made by SEW-EURODRIVE" stands for reliability for both functionality and investment.

We are represented in the most important branches of industry all over the world: with 13 manufacturing plants, 67 assembly plants in 44 countries and our comprehensive range of services, which we consider an integrative service that continues our commitment to outstanding quality.

Always the right drive

The SEW-EURODRIVE modular concept offers millions of combinations. This wide selection enables you to choose the correct drive for all applications, each based on the required speed and torque range, space available and the ambient conditions. Gear units and gearmotors offering a unique and finely tuned performance range and the best economic prerequisites to face your drive challenges.

The gearmotors are powered by MOVITRAC® frequency inverters, MOVIDRIVE® inverters and MOVIAxis® multi-axis servo inverters, a combination that blends perfectly with the existing SEW-EURODRIVE program. As in the case for mechanical systems, the development, production and assembly is also carried out completely by SEW-EURODRIVE. In combination with our drive electronics, these drives provide the utmost in flexibility.

Products of the servo drive system, such as low backlash servo gear units, compact servomotors or MOVIAxis® multi-axis servo inverters provide precision and dynamics. From single-axis or multi-axis applications all the way to synchronized process sequences, servo drive systems by SEW-EURODRIVE offer a flexible and customized implementation of your application.

For economical, decentralized installations, SEW-EURODRIVE offers components from its decentralized drive system, such as MOVIMOT®, the gearmotor with integrated frequency inverter or MOVI-SWITCH®, the gearmotor with integrated switching and protection function. SEW-EURODRIVE hybrid cables have been designed specifically to ensure cost-effective solutions, independent of the philosophy behind or the size of the system. The latest developments from SEW-EURODRIVE: MOVITRANS® system components for contactless energy transfer, MOVIPRO®, the decentralized drive control and MOVIFIT®, the new decentralized intelligence.

Power, quality and sturdy design combined in one standard product: With high torque levels, industrial gear units from SEW-EURODRIVE realize major movements. The modular concept will once again provide optimum adaptation of industrial gear units to meet a wide range of different applications.

Your ideal partner

Its global presence, extensive product range and broad spectrum of services make SEW-EURODRIVE the ideal partner for the machinery and plant construction industry when it comes to providing drive systems for demanding applications in all branches of industries and applications.
1.2 Products and systems from SEW-EURODRIVE

The products and systems from SEW-EURODRIVE are divided into the following 4 product groups:
1. Gearmotors and frequency inverters
2. Servo drive systems
3. Decentralized drive systems
4. Industrial gear units

Products and systems used in several group applications are listed in a separate group "Products and systems covering several product groups". Consult the following tables to locate the products and systems included in the respective product group:

### 1. Gearmotors and frequency inverters

<table>
<thead>
<tr>
<th>Gear units/gearmotors</th>
<th>Motors</th>
<th>Frequency inverters</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Helical gear units/helical gearmotors</td>
<td>• Asynchronous AC motors/AC brakemotors</td>
<td>• MOVITRAC® frequency inverters</td>
</tr>
<tr>
<td>• Parallel-shaft helical gear units/parallel-shaft helical gearmotors</td>
<td>• Pole-changing AC motors/AC brakemotors</td>
<td>• MOVIDRIVE® inverters</td>
</tr>
<tr>
<td>• Helical-bevel gear units/helical-bevel gearmotors</td>
<td>• Energy-efficient motors</td>
<td>• Control, technology and communication options for inverters</td>
</tr>
<tr>
<td>• Helical-worm gear units/helical-worm gearmotors</td>
<td>• Explosion-proof AC motors/AC brakemotors</td>
<td></td>
</tr>
<tr>
<td>• SPIROPLAN® right-angle gearmotors</td>
<td>• Torque motors</td>
<td></td>
</tr>
<tr>
<td>• EMS drives</td>
<td>• Single-phase motors/single-phase brakemotors</td>
<td></td>
</tr>
<tr>
<td>• Geared torque motors</td>
<td>• Asynchronous linear motors</td>
<td></td>
</tr>
<tr>
<td>• Pole-changing gearmotors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Variable speed gear units/variable speed gearmotors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Aseptic gearmotors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Gear units/gearmotors to ATEX standard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Variable speed gear units/variable speed gearmotors to ATEX standard</td>
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</tbody>
</table>

### 2. Servo drive systems

<table>
<thead>
<tr>
<th>Servo gear units/servo gearmotors</th>
<th>Servomotors</th>
<th>Servo drive inverters/servo inverters</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Low backlash planetary servo gear units/planetary gearmotors</td>
<td>• Asynchronous servo-motors/servo brakemotors</td>
<td>• MOVIDRIVE® servo inverters</td>
</tr>
<tr>
<td>• Low backlash helical-bevel gear units/helical-bevel gearmotors</td>
<td>• Synchronous servo-motors/servo brakemotors</td>
<td>• MOVIAXIS® multi-axis servo inverters</td>
</tr>
<tr>
<td>• R, F, K, S, W gear units/gearmotors</td>
<td>• Explosion-proof servo-motors/servo brakemotors</td>
<td>• Control, technology and communication options for servo drive inverters and servo inverters</td>
</tr>
<tr>
<td>• Explosion-proof servo gear units/servo gearmotors</td>
<td>• Synchronous linear motors</td>
<td></td>
</tr>
</tbody>
</table>
Introduction

Additional documentation

In addition to products and systems, SEW-EURODRIVE offers a comprehensive range of services. These include:

- Technical consulting
- Application software
- Seminars and training
- Extensive technical documentation
- International customer service

Visit our homepage at → www.sew-eurodrive.com

The website provides comprehensive information and services.

1.3 Additional documentation

Content of this publication

This "Asynchronous Servo Gearmotors" catalog/price catalog provides a detailed description of the following product groups of SEW-EURODRIVE:

- The combination of DRL asynchronous servomotors mounted directly to R, F, K, S, W gear units
Introduction

Product names and trademarks

The descriptions include:

- Product descriptions
- Overview of types
- Project planning information
- Visual representation of mounting positions
- Explanation on the order information
- Combination overviews and technical data
- Dimension sheets

For details on motor options, refer to the "AC Motors" catalog/price catalog.
For details on gear unit options and adapters, refer to the "Servo Gear Units" and "Gear Units" catalog/price catalog.

Additional documentation

The following documents are available from SEW-EURODRIVE in addition to this "Asynchronous Servo Gearmotors" catalog:

- "AC Motors" price catalogs/catalogs
- "Servo Gear Units" price catalogs/catalogs
- "Gear Units" price catalogs/catalogs
- "AC Motors Inverter Assignments and Characteristic Curves" manual

These price catalogs and catalogs offer the following information:

- Product descriptions
- Technical data and inverter assignments
- Important information about tables and dimension sheets
- Description of the different types
- Selection tables
- Dimension sheets
- Technical data
- Notes on adapter mounting

1.4 Product names and trademarks

The brands and product names in this catalog are trademarks or registered trademarks of the titleholders.

1.5 Copyright

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