Modular, Flexible, Economical

Drive Components and Solutions for Decentralized Drive Systems
Decentralized Implementation of Economical Automation Concepts

In many industries and applications, realizing economical automation concepts means implementing decentralized systems throughout. Long rows of control cabinets with complex wiring, expansive space requirements and long distances between control cabinet and motors are too rigid and not very economical.

Drive components and solutions for decentralized drive systems are:

**Modular**

- With the new MOVIFIT® drive control for innovative field installations,
- MOVIMOT®, the gearmotor with integrated frequency inverter,
- MOVI-SWITCH®, the gearmotor with integrated switching and protection function,
- and the specifically developed field distributors and cable systems,

**Flexible**

- The required control cabinet space is reduced significantly. Let alone the savings in the so far very cost and time consuming wiring of motors, sensors and actuators. Of course, these components can be installed in any commercial bus system. For faster, more economical and flexible decentralization.

**Economical**

- additional central switching and protection units and electronic control devices become obsolete;
- the new MOVIFIT® drive control for innovative field installations,
- MOVIMOT®, the gearmotor with integrated frequency inverter,
- MOVI-SWITCH®, the gearmotor with integrated switching and protection function,
- and the specifically developed field distributors and cable systems,

Driving the world – with innovative drive solutions for all branches of industry and for every application. Products and systems from SEW-EURODRIVE for any application – worldwide. SEW-EURODRIVE products can be found in a variety of industries, e.g. automotive, building materials, food and beverage as well as metal-processing. The decision to use drive technology “made by SEW-EURODRIVE” stands for safety regarding functionality and investment.
Complicated and Time-Consuming Solutions are a Thing of the Past

The savings realized with the unified system solutions for decentralization from SEW-EURODRIVE start as early as the planning stage of the drive solution. The modular design can be easily and quickly altered to accommodate future changes and additions. Flexible adaptation to all process and spatial conditions can be achieved without any difficulty.

Standard fieldbus systems take over the job of communicating with the central controller. Several motors can be easily linked with the energy bus and fieldbus by means of the installed field distributors and system connections.

SEW-EURODRIVE not only reduces the number of components, but constantly develops more compact and efficient drive systems. Right from the start or from the time a system is modernized or converted: Decentralized drive technology from SEW-EURODRIVE makes for modular, flexible and economical systems.
The new MOVIFIT® systems combine the well-known advantages of SEW-EURODRIVE’s decentralized installation technology with modern, application-oriented drive and communication functions.

In doing so, MOVIFIT® fulfills the current demands of plant manufacturers and operators: e.g. for reduced unit costs, installation times and startup efforts, for “ready-to-use” and flexible conveying functions, for optimized system topologies, for a high degree of integration or for food-grade unit designs.

### MOVIFIT® is:

<table>
<thead>
<tr>
<th>Modular</th>
<th>Flexible</th>
<th>Economical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three unit variants are available</td>
<td>State-of-the-art connection technology makes for fast installation and startup, a high degree of serviceability and ease of diagnostics, also when replacing the electronics</td>
<td>Reduced investment and operating costs and project planning times:</td>
</tr>
<tr>
<td>New power electronics with frequency inverters and motor control switches</td>
<td>Support of new strategies for optimized system topologies</td>
<td>– Standardized conveyor elements</td>
</tr>
<tr>
<td>High level of integration</td>
<td>Communication via all commercial fieldbus systems, including ETHERNET</td>
<td>– Well-structured, functional system topology</td>
</tr>
<tr>
<td></td>
<td>– Various areas of application</td>
<td>– Modular, decentralized concept allows for quick and easy expansion of a system should this become necessary</td>
</tr>
<tr>
<td></td>
<td></td>
<td>– Reusability of the modules reduces project planning costs and times</td>
</tr>
<tr>
<td></td>
<td></td>
<td>– A decentralized electronics unit enables control of several drives, which reduces the number of units</td>
</tr>
<tr>
<td></td>
<td></td>
<td>– Minimizes the space required in the control cabinet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>– Minimizes error sources during wiring</td>
</tr>
<tr>
<td></td>
<td></td>
<td>– MOVIFIT® Hygienic®: Standard design for use under special ambient conditions, e.g. in wet areas</td>
</tr>
</tbody>
</table>
MOVIFIT®, the drive control for innovative field installation: Already at the project planning stage, this entirely successful concept saves a substantial amount of time and money, eventually reducing investment and operating costs significantly.
MOVIFIT®: Diverse Areas of Application due to Flexible Installation Technology

Horizontal or vertical conveying technology, belt or chain conveyors, elevating or rotary tables: the requirements on a drive system are diverse and demanding.

No problem for the MOVIFIT® system from SEW-EURODRIVE: With its flexible installation technology, the system sets new standards resulting in more efficiency in component and system planning. The system is really simple: It is a modular system enabling the electronics and connection units to be combined and configured to match the requirements of the application and the installation concept, for example

- In the automotive industry in the body shop or in the final assembly
- In the food and beverage industry in baking lines, in meat or poultry conveyor systems, as well as in beverage conveyor belts both in dry and wet areas
- In logistics in conveyor systems and storage and retrieval units
The MOVIFIT® HygienicPlus design fulfills highest demands for leak-tightness as well as the special hygienic cleaning standards of the food and beverage industry:

- Housing design and inspection window meet the requirements for degree of protection IP69K
- The special housing surface makes cleaning agents and water do not adhere to the unit or leave any traces (self-draining)
- Meets standards for hygienic criteria according to DIN EN 1672-2 and DIN EN ISO 14159

- Cleaning agent compatibility: Disinfectant cleaning agents containing alkali and acids can be used without any problems
- Anti-adhesive properties
- Surface highly resistant against mechanical impacts
- Insensitivity to temperature fluctuations: Condensation and suction effect (pressure compensation possible)
## MOVIFIT® Designs

### MOVIFIT® MC
- Up to three MOVIMOT® to be connected via hybrid cable
- Voltage range 3 x 380 … 500 V
- Integrated power distribution and line protection
- Integrated communication interface
- Maintenance switch
- “Safe stop” function
  - Safety category 3 to EN 954-1
  - Stop category 0 according to EN 60204-1
  - Optional stop category 1 according to EN 60204-1
- 12 digital inputs + 4 digital inputs/outputs
- CAN/SBus interface for external components
- Simple and fast parameter setting via DIP switches or fieldbus

### MOVIFIT® SC
- Electronic (contactless) motor starter
  - Connection of two motors (dual motor starter) ➞ one direction of rotation
  - Connection of one motor (reversing starter) ➞ two directions of rotation
- Power range
  - with connection of two motors / ➞ 2 x 0.37 to 2.2 kW
  - with connection of one motor / ➞ 1 x 0.37 to 4.0 kW
- Adjustable soft startup time
- Voltage range 3 x 380 … 500 V
- Increased safety by switching of three phases
- Integrated energy distribution
- Integrated brake management for SEW three-wire brakes
- Optional maintenance switch
- Integrated communication interface
- Digital inputs/outputs
  - 6 DI + 2 DI/O with Classic function level
  - 12 DI + 4 DI/O with function level Technology or System
- CAN/SBus interface for external components
- Simple and fast parameter setting via DIP switches
- Expanded parameter setting via fieldbus or diagnostics interface
MOVIFIT® Designs

- Configurable (open-loop) frequency inverter
- Power range from 0.37 to 4 kW (in two sizes)
- Voltage range 3 x 380 … 500 V
- Integrated energy distribution
- Integrated brake management for SEW three-wire brakes
- Optional internal braking resistor (integrated in ABOX)
- Optional external braking resistor
- Optional maintenance switch
- Integrated communication interface
- Digital inputs/outputs
  - 6 DI + 2 DI/O with function level Classic
  - 12 DI + 4 DI/O with function level Technology or System
- CAN/SBus interface for external components
- “Safe stop” function
  - Safety category 3 to EN 954-1
  - Stop category 0 according to EN 60204-1
  - Optional stop category 0 according to EN 60204-1
- Simple and fast parameter setting via DIP switches
- Expanded parameter setting via fieldbus or diagnostics interface

MOVIFIT® function levels

The function level indicates the functions included in the software for MOVIFIT® units regarding
- Operation
- System control
- Diagnostics

Overview of MOVIFIT® function levels

<table>
<thead>
<tr>
<th>Classic</th>
<th>Technology</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simple functions</td>
<td>Free programming</td>
<td>Drive-oriented conveyor functions</td>
</tr>
<tr>
<td></td>
<td>(MOVI-PLC®/MOVITOOLS® MotionStudio)</td>
<td>(MOVIVISION®)</td>
</tr>
<tr>
<td></td>
<td>Programming takes place according to IEC 61131 (e.g. in LD, FBD, IL, ST, AS)</td>
<td>Central data storage and management</td>
</tr>
<tr>
<td></td>
<td>MOVITOOLS® MotionStudio with PLC Editor, Application Builder, etc.</td>
<td>Central parameter and diagnostics system with the configurable MOVIVISION® system software</td>
</tr>
<tr>
<td></td>
<td>Multi-stage library concept</td>
<td>Configurable, drive-oriented conveyor functions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Simple, intuitive operation for system operators</td>
</tr>
</tbody>
</table>

Communication via fieldbus: PROFIBUS, PROFINET, PROFIsafe, DeviceNet, ETHERNET IP
MOVIMOT® is the success product in decentralized drive engineering: the ingeniously simple idea of combining a gearmotor with integrated frequency inverter in the power range of 0.37 to 4.0 kW. Despite the integrated frequency inverter, the unit needs only a minimum of additional space compared to the standard gearmotors and can be supplied in all standard versions and mounting positions with and without brake for supply voltages of 380 to 500 V and 200 to 240 V.

The plug-in type inverter makes for quick installation and can be easily replaced in case of a service call. SEW-EURODRIVE offers an optional SafetyDrive package to equip plants with functional safety concepts.
Always One Step Ahead

The revised MOVIMOT® D is SEW-EURODRIVE’s next, future-oriented chapter of this success story. Consequent further development of the gear-motors with integrated frequency inverter of the MOVIMOT® D series ensured that already today the challenging requirements of a successful energy balance are fulfilled. MOVIMOT® D can be combined with the new energy efficient motors of the DR series that already today meet the efficiency level required by the premium efficiency classification (IE3).

It goes without saying that the new MOVIMOT® D can be combined with the proven DT/DV motor series as usual.

MOVIMOT® is:

<table>
<thead>
<tr>
<th>Modular</th>
<th>Flexible</th>
<th>Economical</th>
</tr>
</thead>
<tbody>
<tr>
<td>– Gearmotor and drive electronics combined in a robust and compact housing</td>
<td>The MOVIMOT® series allows for more flexible and demand-oriented adjustment to the</td>
<td>– Saves control cabinet space</td>
</tr>
<tr>
<td>– Infinitely variable speed up to 1:10 with constant torque</td>
<td>– application requirements,</td>
<td>– Minimizes cabling effort and costs</td>
</tr>
<tr>
<td>– Vector-oriented motor control and four-quadrant operation with or without mechanical brake</td>
<td>– ambient conditions on site,</td>
<td>– Integrated frequency inverter: Additional electronic controllers are no longer required</td>
</tr>
<tr>
<td>– Communication with the controller takes place either via the serial RS-485 interface or optionally via all commercial fieldbus interfaces (PROFIBUS, PROFIsafe, INTERBUS, DeviceNet, CANopen, or AS-Interface).</td>
<td>– space available for the installation, and</td>
<td>– MOVIMOT® D in combination with the DRE.. energy efficient motor: The efficiency levels reached by the motors meet, and sometimes even exceed, the international requirements on limit values as well as the IE1, IE2 and IE3 standards.</td>
</tr>
<tr>
<td>– Available in all gear unit designs and mounting positions of the modular system up to degree of protection IP66</td>
<td>– safety-oriented communication via PROFIsafe field distributors</td>
<td></td>
</tr>
<tr>
<td>Technical Data: MOVIMOT®</td>
<td></td>
<td></td>
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<tr>
<td>--------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Available motor power ratings</strong></td>
<td>0.37 / 0.55 / 0.75 / 1.1 / 1.5 / 2.2 / 3 / 4 kW</td>
<td></td>
</tr>
<tr>
<td><strong>Speed setting ranges</strong></td>
<td>280 ... 1400 (1700) 1/min and 290 ... 2900 1/min</td>
<td></td>
</tr>
<tr>
<td><strong>Approbation</strong></td>
<td>IEC / TÜV</td>
<td></td>
</tr>
<tr>
<td><strong>Connection voltage [V]</strong></td>
<td>3 x 380 ... 500 V ± 10 % / 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 x 200 ... 240 V ± 10 % / 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td><strong>Motor frequency range [Hz]</strong></td>
<td>2 ... 100 Hz</td>
<td></td>
</tr>
<tr>
<td><strong>Control supply voltage</strong></td>
<td>24 Vdc external, local supply available as option</td>
<td></td>
</tr>
<tr>
<td><strong>Enclosure</strong></td>
<td>IP54, optional IP55, IP65, IP66</td>
<td></td>
</tr>
<tr>
<td><strong>Ambient temperature</strong></td>
<td>-30°C/-20°C to +40°C (depending on the motor design)</td>
<td></td>
</tr>
<tr>
<td><strong>Control via binary signals</strong></td>
<td>Entry for cw/stop, ccw/stop, setpoint switch mode isolated signal relays, 2 fixed setpoints, 1 ramp for acceleration and deceleration</td>
<td></td>
</tr>
<tr>
<td><strong>Control via fieldbus communication</strong></td>
<td>In combination with fieldbus interfaces, with and without minicontroller</td>
<td></td>
</tr>
<tr>
<td><strong>Use in stand-alone applications</strong></td>
<td>PROFIBUS, PROFIsafe, INTERBUS, INTERBUS LWL, DeviceNet, CANopen, AS-Interface</td>
<td></td>
</tr>
<tr>
<td><strong>MLU.1A</strong>: Local 24 Vdc supply</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MLG.1A</strong>: Local supply with 24 Vdc supply</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MBG11A</strong>: Speed control module for setpoint frequency specification and display</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MWA21A</strong>: Setpoint converter for interfacing of analog setpoints (0... 10 V, 0... 20 mA, 4... 20 mA) and RS-485</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Use in decentralized installations</strong></td>
<td>In combination with field distributors:</td>
<td></td>
</tr>
<tr>
<td><strong>MF.../Z.3.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MF.../Z.6.</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>MF.../Z.7.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MF.../Z.8.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>as well as the corresponding hybrid cables</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Diagnostics</strong></td>
<td>3-color LED signals operating status and fault status via diagnostics interface, serial interface RS485 and option MDG11A or PC</td>
<td></td>
</tr>
</tbody>
</table>
MOVI-SWITCH® is an efficient solution when it comes to decentralization at power levels up to 3 kW: The gearmotor with integrated switching and protection function does not take up space in the control cabinet and does not require any cabling apart from the supply and control voltage. Control for one or two directions of rotation, thermal motor protection and AS-Interface as an option are integrated in the motor. In addition to that, this gearmotor impresses by its compact and robust design.

The SEW-EURODRIVE modular system is a key contributor also to the success of MOVI-SWITCH®: All AC motors and brakemotors can be combined with all matching gear units. Brake control is integrated into all brakemotors as standard for shortest response times for releasing and applying the brake. MOVI-SWITCH® can be combined with the new energy efficient motors of the DR.. series that already today meet the efficiency level required by the premium efficiency classification (IE3).

MOVI-SWITCH® is available with enclosures up to IP65 in all gear unit variants and mounting positions.
**MOVI-SWITCH®** ensures safety and functionality: Switching and protection functions are integrated in the motor terminal box; no additional space in the control cabinet or cabling effort are required.

**MOVI-SWITCH® is:**

<table>
<thead>
<tr>
<th>Modular</th>
<th>Flexible</th>
<th>Economical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available in two designs:</td>
<td>- Opens up new application areas</td>
<td>- Saves control cabinet space</td>
</tr>
<tr>
<td>- MOVI-SWITCH®-1E: On/off one direction of</td>
<td>- Fast configuration due to simple control</td>
<td>- Minimizes cabling effort and costs</td>
</tr>
<tr>
<td>rotation / contactless star bridge connector</td>
<td>- Simplifies maintenance</td>
<td>- Simple startup: Supply and control connection</td>
</tr>
<tr>
<td>- MOVI-SWITCH®-2S: On/off two directions of</td>
<td></td>
<td>for motors with or without brake is the same</td>
</tr>
<tr>
<td>rotation / switching element with contact</td>
<td></td>
<td>- No additional switching and protection</td>
</tr>
<tr>
<td></td>
<td></td>
<td>devices necessary</td>
</tr>
<tr>
<td>MOVI-SWITCH®</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Type</td>
<td>MSW-1E</td>
<td>MSW-2S</td>
</tr>
<tr>
<td>Switching function</td>
<td>On/Off one direction of rotation</td>
<td>On/Off two directions of rotation</td>
</tr>
<tr>
<td>Switch element</td>
<td>Contactless star bridge switch</td>
<td>Switch element with contact</td>
</tr>
<tr>
<td>Direction of rotation</td>
<td>CW or CCW depending on phase sequence</td>
<td>CW and CCW, independent of phase sequence</td>
</tr>
<tr>
<td>Control via fieldbus communication</td>
<td>– Binary control signals RUN / OK</td>
<td>– Binary control signals CW / CCW / OK</td>
</tr>
<tr>
<td></td>
<td>– Connection via 1x M12-plug connector</td>
<td>– Connection via 2x M12-plug connectors</td>
</tr>
<tr>
<td></td>
<td>– Optionally with external AS-Interface</td>
<td>– Alternatively with integrated AS-Interface</td>
</tr>
<tr>
<td>Brake management</td>
<td>Standard with brake rectifier BGW</td>
<td>– Integrated brake control</td>
</tr>
<tr>
<td></td>
<td></td>
<td>– Electrical manual brake release with optional BGM-rectifier</td>
</tr>
<tr>
<td>Supply voltage [V]</td>
<td>3 x 380 ... 500 V / 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>Control supply voltage [V DC]</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Brake voltage</td>
<td>Supply voltage, alternative supply voltage / $\sqrt{3}$</td>
<td></td>
</tr>
<tr>
<td>Motor protection</td>
<td>Direct temperature monitoring with integrated analysis</td>
<td></td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP54, as an option IP55, IP65, IP66</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-25 °C ... +40 °C (... +60 °C)</td>
<td></td>
</tr>
<tr>
<td>Power range [kW]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-pole</td>
<td>0.37 ... 3.0</td>
<td></td>
</tr>
<tr>
<td>2-pole</td>
<td>0.55 ... 3.0</td>
<td></td>
</tr>
<tr>
<td>6-pole</td>
<td>0.25 ... 1.5</td>
<td></td>
</tr>
<tr>
<td>8-pole</td>
<td>0.15 ... 1.1</td>
<td></td>
</tr>
</tbody>
</table>
Functional and Connection Principles

MOVI-SWITCH®-2S

MOVI-SWITCH®-1E

Wiring:
- SEW
- Customer
System operators cannot make any compromises, especially when it comes to “small things.” Fieldbus interfaces, field distributors and cable systems complete the SEW-EURODRIVE system solutions for each decentralization task.

We have thought about all details for quick, economical and flexible decentralization. Fieldbus interfaces, field distributors and cable systems complete the range of MOVIMOT® and MOVI-SWITCH® products.
You can now organize the electrical connections in your production system even without a control cabinet.

Field distributors rationalize the connection of drives with the power supply system, the 24 V dc control voltage and the fieldbus. The units are based on the bus interfaces technology with additional connection technology for supply system distribution. Decentralized installation is made easy by installation of the field distributor close to the motor. The modular plug-in system makes for easy troubleshooting and maintenance, especially in case of a problem.

The hybrid cables have been developed in house and are combination cables which carry the power supply, control voltage and communication strands within one cable sheath. They also guarantee optimum EMC shielding and impedance.

The fieldbus interfaces support the communication with the most frequently used fieldbus systems, PROFIBUS, INTERBUS, CANopen, DEVCENet und AS-Interface. The fieldbus interfaces are based on a module terminal box with connecting terminals and a plug-in fieldbus module. These interfaces can be fitted directly onto MOVIMOT® or they can be mounted separately.

The variable speed MOVIMOT® drive is connected to the bus using terminals; additional sensors, actuators or MOVI-SWITCH® gearmotors without closed-loop control can be connected to the bus either by using terminals or M12 plug connectors. Fault diagnosis can easily be conducted via the bus in the event of a malfunction thanks to diagnostic interfaces and LED signals.

The hybrid cable for connecting field distributors and MOVIMOT® is at the same time communication interface and supply voltage and control voltage connection in one cable. It is delivered as prefabricated cable with plug connector.

MOVIMOT® drives fitted with hybrid cables can be connected to the field distributor in a matter of seconds – ready to operate. For servicing, the plug can be disconnected without any danger, even by personnel without technical training. The drive can be replaced and the new drive re-connected quickly. The system is ideal for all applications requiring high levels of operating availability.
SEW-EURODRIVE is right there for you:

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