



SEW
EURODRIVE

Catalog



MOVIFIT[®] basic





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1 System Description

1.1 MOVIFIT® basic family of products

MOVIFIT® basic – easy to use

The MOVIFIT® basic decentralized drive controller rounds out SEW-EURODRIVE's portfolio of lower function, decentralized drives.



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Its innovative design, combined with integrated quick-connect technology, allows for fast, inexpensive installation. The integrated Weidmüller FieldPower® contact block in the rear unit connects to power through power bus topology and state-of-the-art connection technology.

Even starting up the MOVIFIT® basic is easy. While no parameterization is generally necessary with the MOVIFIT® basic starter, the MOVIFIT® basic frequency inverter can be parameterized in just a few steps with the LT Shell engineering software or the LT-BG hand-held terminal. The engineering tool is connected through the central service interface.

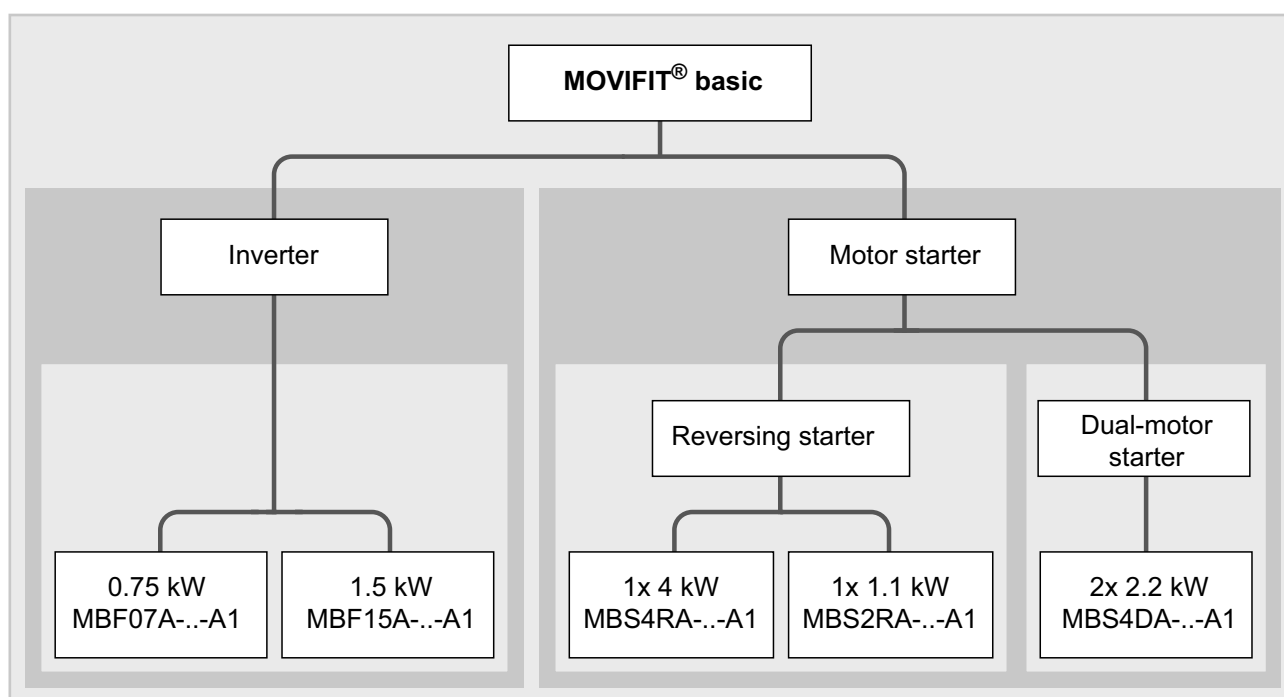
In the AS-Interface version, two additional sensors can be connected.



1.1.1 Versions

MOVIFIT® basic is available in the following versions:

- **Inverter** Connection 1 motor with CW and CCW rotation and 4 setpoint speeds
- **Reversing starter** Connection 1 motor with CW and CCW rotation
- **Dual-motor starter** Connection 2 motors with 1 direction of rotation each



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All versions are available with AS-Interface or binary control.



1.2 **MOVIFIT® basic motor starter**

1.2.1 **MOVIFIT® basic motor starter MBS unit features**

- Electronic, contactless motor starter
- When 1 motor is connected (reversing starter): 2 directions of rotation
- When 2 motors are connected (dual-motor starter): 1 direction of rotation
- Power range
 - MOVIFIT® basic reversing starter
 - MBS2RA: 0.18 – 1.1 kW
 - MBS4RA: 1.50 – 4.00 kW
 - MOVIFIT® basic dual-motor starter
 - MBS4DA: 2x 0.55 – 2.2 kW
- Voltage range: 3x 380 V (–10%) – 480 V (10%)
- Integrated Weidmüller FieldPower® technology for quick connection to power grid
- Control:
 - AS-Interface
 - Binary signals
- Integrated motor protection functions
- Integrated 24 V supply
- Optional hand-held terminal
- Sensor inputs (in AS-Interface version)
- All connections and interfaces come as plugs.



1.3 MOVIFIT® basic inverter

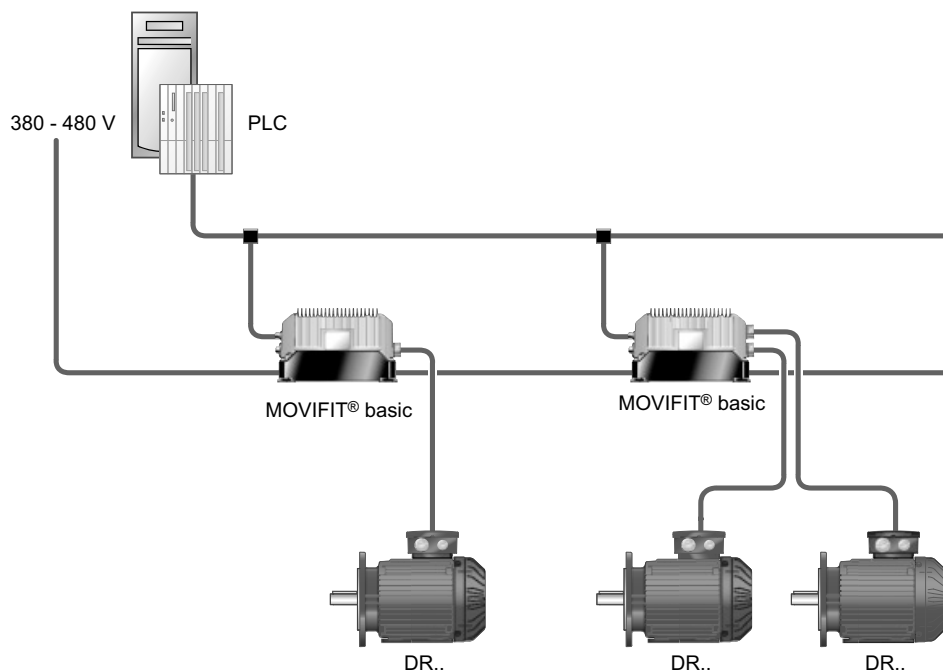
1.3.1 MOVIFIT® basic frequency inverter MBF unit features

- Parameterizable, vector-controlled frequency inverter
- Power range: 0.75 – 1.5 kW (1 size)
- Voltage range: 3x 380 V (–10%) – 480 V (10%)
- Integrated Weidmüller FieldPower® technology for quick connection to power grid
- Control:
 - AS-Interface
 - Binary signals
- Integrated motor protection functions
- Control modes: U/F or vector control (open loop)
- 4 fixed setpoint speeds, parameterizable
- Energy saving function
- Integrated 24 V supply
- Hand-held terminal available
- Sensor inputs (AS-Interface version)
- All connections and interfaces come as plugs.



1.4 Topology

The following figure shows the general installation topology of MOVIFIT® basic with AS-Interface control and AC motor:



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1.5 MOVIFIT® basic protective functions

1.5.1 MOVIFIT® basic inverter protective functions

- Output overcurrent
- Overload protection
- Overvoltage protection
- Undervoltage protection
- Overtemperature protection
- Undertemperature protection
- Line phase failure

1.5.2 MOVIFIT® basic motor starter protective functions

- Output overcurrent
- Overload protection
- Overtemperature protection
- Line phase failure



1.6 Declaration of conformity

EC Declaration of Conformity



901120011



SEW-EURODRIVE GmbH & Co KG
Ernst-Blickle-Straße 42, D-76646 Bruchsal
declares under sole responsibility that the

units of the series	MOVIFIT® basic	MBF.. MBS..
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are in conformity with

Low Voltage Directive	2006/95/EC
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EMC Directive	2004/108/EC	4)
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Applied harmonized standards	EN 61800-5-1:2007 EN 60204-1:2006 EN 61800-3:2007 EN 55011:2007
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- 4) According to the EMC Directive, the listed products are not independently operable products. EMC assessment is only possible after these products have been integrated in an overall system. The assessment was verified for a typical system constellation, but not for the individual product.

Bruchsal 16.05.11

Place

Date

Johann Soder
Managing Director Technology

a) b)

- a) Authorized representative for issuing this declaration on behalf of the manufacturer
b) Authorized representative for compiling the technical documents

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1.7 Type designations

1.7.1 Nameplate

The following figure gives an example of a nameplate of the MOVIFIT® basic inverter:



3782535691

1.7.2 Type designation

The following table shows the MOVIFIT® basic type designation:

MBF07A-K1-A1

	Connection module
	Version
	Controller
	K = via AS-Interface
	B = binary control
	Version
	Motor power/variant
	07 = 0.75 kW inverter
	15 = 1.5 kW inverter
	2R = reversing starter (1.1 kW)
	4R = reversing starter (4.0 kW)
	4D = dual-motor starter
	Version
	F = inverter
	S = motor starter
	Unit series
	MB = MOVIFIT® basic



1.8 User interface

1.8.1 Description of LT-BG operator terminal for MBF frequency inverter

Function You can use the LT-BG operator terminal to start up, parameterize and manually operate MOVIFIT® basic inverters. The operator terminal also displays important information about the status of the drive.

Features

- Illuminated display
- Keypad with 5 keys
- Connection cable

Key assignment The following figure shows the key assignment of the LT-BG operator terminal:



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Key 	Navigate	• Switch menu • Saving parameter values • Show real-time information
Key 	Up	• Increase speed • Increase parameter values
Key 	Down	• Decrease speed • Decrease parameter values
Key 	Stop	• Stop the drive • Reset the drive
Key 	Start	• Enabling the drive • Changing the direction of rotation



1.8.2 Description of the MB-LC operator terminal

Function You can use the MB-LC operator terminal to manually operate MOVIFIT® basic units (inverter and motor starter). The operator terminal also displays important information about the status of the drive.

Features

- Illuminated display
- Keypad with 5 keys
- Connection cables

Key assignment The following figure shows the key assignment of the MB-LC operator terminal:



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- | | |
|---|--|
| Key  | Activation/deactivation of manual mode with the MB-LC operator terminal |
| Key  | Setting/resetting of bit DO0 of the MOVIFIT® basic drive |
| Key  | Setting/resetting of bit DO1 of the MOVIFIT® basic drive |
| Key  | Setting/resetting of bit DO2 of the MOVIFIT® basic drive |
| Key  | Setting/resetting of bit DO3 of the MOVIFIT® basic drive |



1.8.3 Connection of operator terminals LT-BG and MB-LC

MOVIFIT[®] basic units are equipped with an X50 diagnostic interface (RJ11 socket).
The diagnostics interface is located in the connection block of the control unit.

You must remove the screw plug before plugging in the connector into the diagnostic interface.

▲ WARNING Danger of burns due to hot surfaces of the MOVIFIT[®] basic unit.
Severe injuries.

- Wait for the MOVIFIT[®] basic unit to cool down sufficiently before touching it.

NOTICE Loss of the ensured degree of protection if the screw plug of the diagnostic interface X50 is not installed.

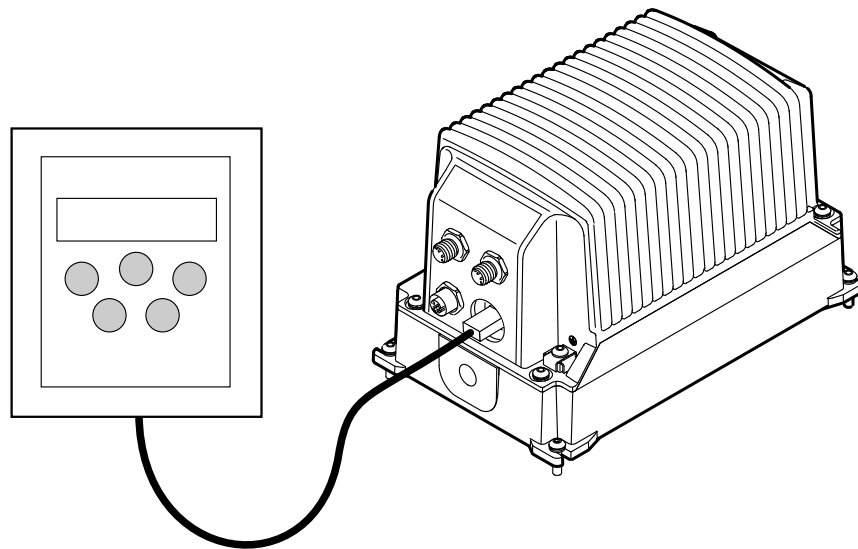
Damage to the MOVIFIT[®] basic unit.

- If there is no screw plug covering the diagnostic interface, you have to make sure that no moisture can ingress into the MOVIFIT[®] basic unit.

Use the cable enclosed with the operator terminal to connect the operator terminal to the MOVIFIT[®] basic unit.

Scope of delivery:

Type	Part number	Scope of delivery
LT-BG	1 820 864 9	– LT-BG operator terminal – Cable with RJ11 – RJ11 plug connectors
MB-LC	2 820 126 4	– MB-LC operator terminal – Cable with RJ45 – RJ11 plug connectors



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1.8.4 PC connection

The MOVIFIT[®] basic inverter is equipped with an X50 diagnostics interface (RJ-11 socket) for startup, parameterization and service.

The diagnostics interface is located in the connection block of the control unit.

You must remove the screw plug before plugging in the connector into the diagnostic interface.

▲ WARNING Danger of burns due to hot surfaces of the MOVIFIT[®] basic unit.

Severe injuries.

- Wait for the MOVIFIT[®] basic unit to cool down sufficiently before touching it.

NOTICE Loss of the ensured degree of protection if the screw plug of the diagnostic interface X50 is not installed.

Damage to the MOVIFIT[®] basic unit.

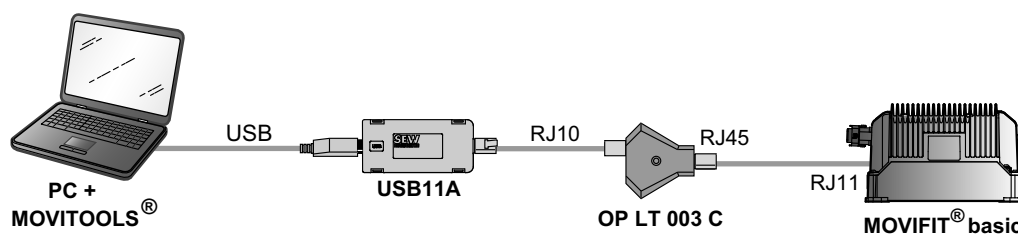
- If no screw plug is covering the diagnostic interface, you have to make sure that no moisture can ingress into the MOVIFIT[®] basic unit.

The diagnostic interface can be connected to a conventional PC/laptop with the following accessories:

- USB11A interface adapter
- and OP LT 003 C adapter

Scope of delivery:

Type	Part number	Scope of delivery
USB11A	0 824 831 1	– USB11A interface adapter – USB cable – Cable with RJ10 – RJ10 plug connectors
OP LT 003 C	1 824 368 1	– OP LT 003 C adapter with DC 24 V -> DC 5 V voltage converter – Cable with RJ45 – RJ11 plug connectors



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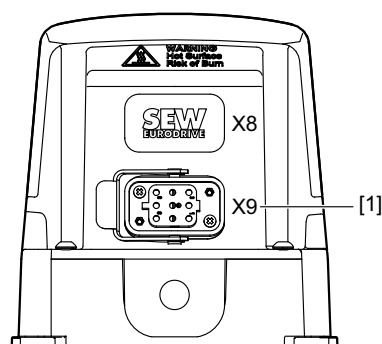
1.9 Plug connectors

1.9.1 Motor connection variants

The following figure shows the motor plug connector variants for MOVIFIT® basic:

MOVIFIT® basic inverter

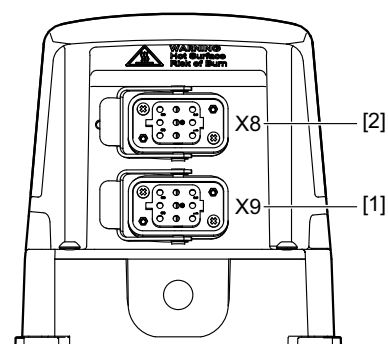
MOVIFIT® basic reversing starter



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- [1] X9 Motor connection
- [2] X8 Motor connection

MOVIFIT® basic dual-motor starter



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System Description

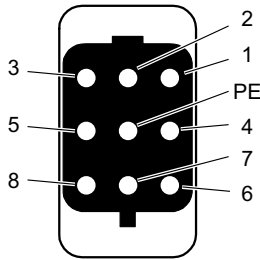
Plug connectors

1.9.2 X9, (X8): Motor connection

The X8 plug connector is only available in conjunction with MOVIFIT[®] basic with dual-motor starter

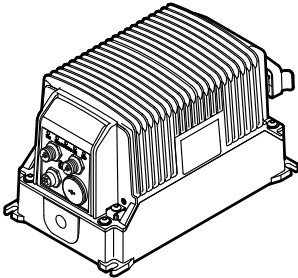
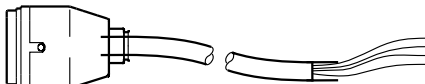
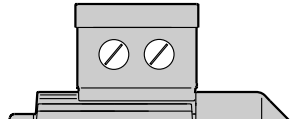
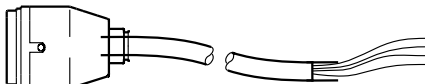
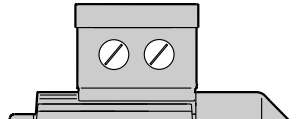
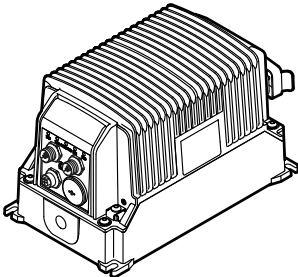
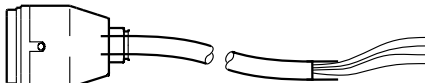
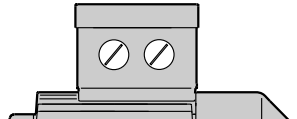
Connection

The following table provides information about this connection:

Function		
Power connection for motor with brake		
Connection type		
Q 8/0, female		
Wiring diagram		
		
2441429259		
Assignment		
No.	Name	Function
1	U	Motor phase U output
2	n. c.	Not connected
3	W	Motor phase W output
4	L1	Supply of mechanical brake (only with MOVIFIT [®] basic inverter)
5	n. c.	Not connected
6	L2_S	Supply of mechanical brake switched (only with MOVIFIT [®] basic inverter)
7	V	Motor phase V output
8	n. c.	Not connected
PE	PE	Protective earth



Connection cables

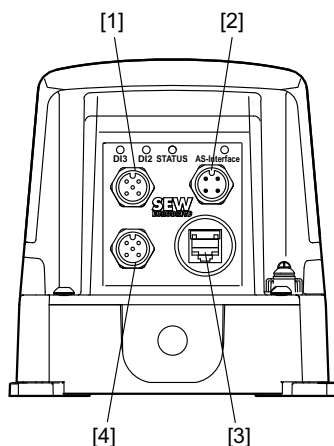
MOVIFIT® basic	Motor cable	Motor
MOVIFIT® basic inverter 	Cable design: 4G2.5, shielded max. 10 m Cable design: 4G2.5, unshielded 3 m Part number: 1 814 874 3  Q 8/0 Open	AC motor without brake 
	Cable design: 7G2.5, shielded max. 10 m Cable design: 7G2.5, unshielded 3 m Part number: 1 814 992 8  Q 8/0 Open	AC motor with brake 
MOVIFIT® basic motor starter 	Cable design: 4G2.5, unshielded max. 10 m Cable design: 4G2.5, unshielded 3 m Part number: 1 814 874 3  Q 8/0 Open	AC motor with or without brake 



1.9.3 Control unit connection

The following figure shows the control unit versions for MOVIFIT[®] basic:

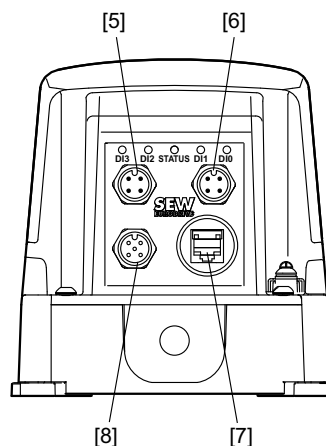
MOVIFIT[®] basic with AS-Interface



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- [1] X22 Binary input sensor 2
- [2] X21 AS-Interface connection
- [3] X50 Diagnostic interface
- [4] X23 Binary input sensor 3

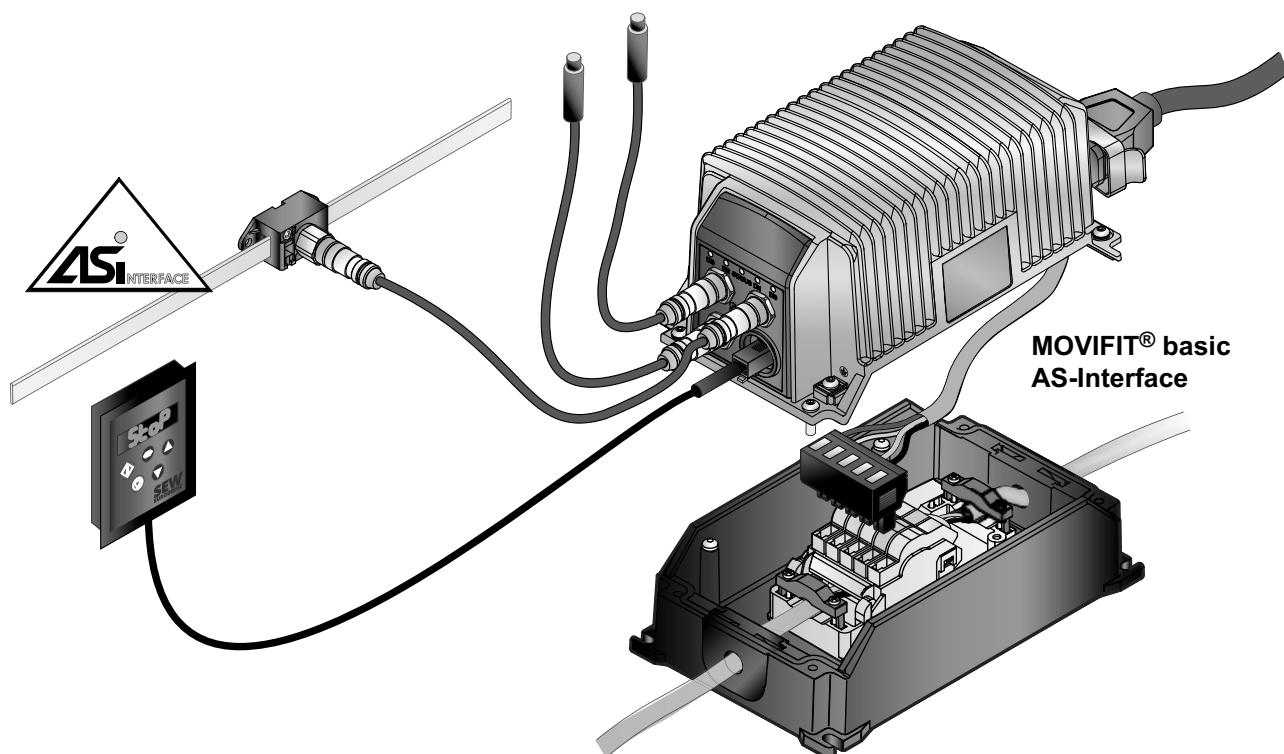
MOVIFIT[®] basic with binary control



2816402955

- [5] X12 Signal inputs DI2 + DI3
- [6] X11 Signal inputs DI0 + DI1
- [7] X50 Diagnostic interface
- [8] X13 Signal outputs DO0 + DO1

1.9.4 Sample connection of MOVIFIT[®] basic with AS-Interface control



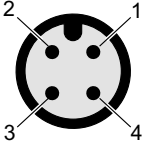
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1.9.5 Connections of MOVIFIT® basic with AS-Interface

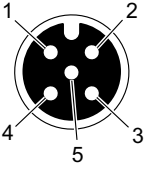
X21: AS-Interface connection

The following table provides information about this connection:

Function		
AS-Interface – input		
Connection type		
M12, 4-pole, male, A-coded		
Wiring diagram		
		
2384154763		
Assignment		
No.	Name	Function
1	AS-Interface +	AS-Interface +
2	n. c.	Not connected
3	AS-Interface –	AS-Interface –
4	n. c.	Not connected

X22: Digital input sensor 2

The following table provides information about this connection:

Function		
Digital input sensor 2		
Connection type		
M12, 5-pole, female, A-coded		
Wiring diagram		
		
2264816267		
Assignment		
No.	Name	Function
1	+24 V	DC 24 V output (sensor supply)
2	n. c.	Not connected
3	0V24	0V24 reference potential
4	DI2	Digital input sensor 2
5	PE	Equipotential bonding/protective earth conductor

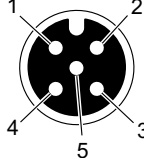


System Description

Plug connectors

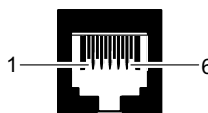
X23: Digital input sensor 3

The following table provides information about this connection:

Function		
Digital input sensor 3		
Connection type		
M12, 5-pole, female, A-coded		
Wiring diagram		
		
2264816267		
Assignment		
No.	Name	Function
1	+24 V	DC 24 V output (sensor supply)
2	n. c.	Not connected
3	0V24	0V24 reference potential
4	DI3	Digital input sensor 3
5	PE	Equipotential bonding/protective earth conductor

X50: Diagnostic interface

The following table shows information about this connection:

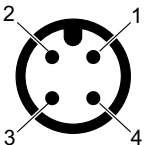
Function		
Diagnostics and programming interface		
Connection type		
RJ11 (6P6C)		
Wiring diagram		
		
3163123211		
Assignment		
No.	Name	Function
1	n. c.	Not connected
2	RS +	RS485 data line (+)
3	RS -	RS485 data line (-)
4	+24 V	DC 24 V output for keypad
5	0V24	0V24 reference potential for keypad
6	n. c.	Not connected



1.9.6 Connections of MOVIFIT® basic with binary control

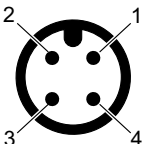
X11: Signal inputs 0 and 1 of MOVIFIT® basic

The following table provides information about this connection:

Function		
Digital inputs 0 and 1		
Connection type		
M12, 4-pole, male, A-coded		
Wiring diagram		
		
2718233355		
Assignment		
No.	Name	Function
1	n. c.	Not connected
2	DI1	Digital input 1
3	0V24	0V24 reference potential
4	DI0	Digital input 0

X12: Signal inputs 2 and 3 of MOVIFIT® basic

The following table provides information about this connection:

Function		
Digital inputs 2 and 3		
Connection type		
M12, 4-pole, male, A-coded		
Wiring diagram		
		
2718233355		
Assignment		
No.	Name	Function
1	n. c.	Not connected
2	DI3	Digital input 3
3	0V24	0V24 reference potential
4	DI2	Digital input 2

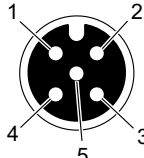


System Description

Plug connectors

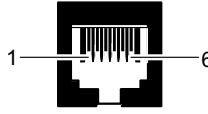
X13: Signal
outputs 0 and 1 of
MOVIFIT® basic

The following table informs about this connection:

Function		
Digital outputs 0 and 1		
Connection type		
M12, 5-pole, female, A-coded		
Wiring diagram		
		
2264816267		
Assignment		
No.	Name	Function
1	+24 V	DC 24 V output
2	DO1	Digital output 1 (manual mode) 0: MOVIFIT® basic control via control signals 1: Manual control of MOVIFIT® basic
3	0V24	0V24 reference potential
4	DO0	Digital output 0 (ready signal) 0: MOVIFIT® basic is <u>not</u> ready 1: MOVIFIT® basic is ready
5	PE	Equipotential bonding/protective earth conductor

X50: Diagnostic
interface

The following table shows information about this connection:

Function		
Diagnostics and programming interface		
Connection type		
RJ11 (6P6C)		
Wiring diagram		
		
3163123211		
Assignment		
No.	Name	Function
1	n. c.	Not assigned
2	RS +	RS485 data line (+)
3	RS –	RS485 data line (–)
4	24 V	24 V DC output for operator terminal
5	0V24	0V24 reference potential for operator terminal
6	n. c.	Not assigned



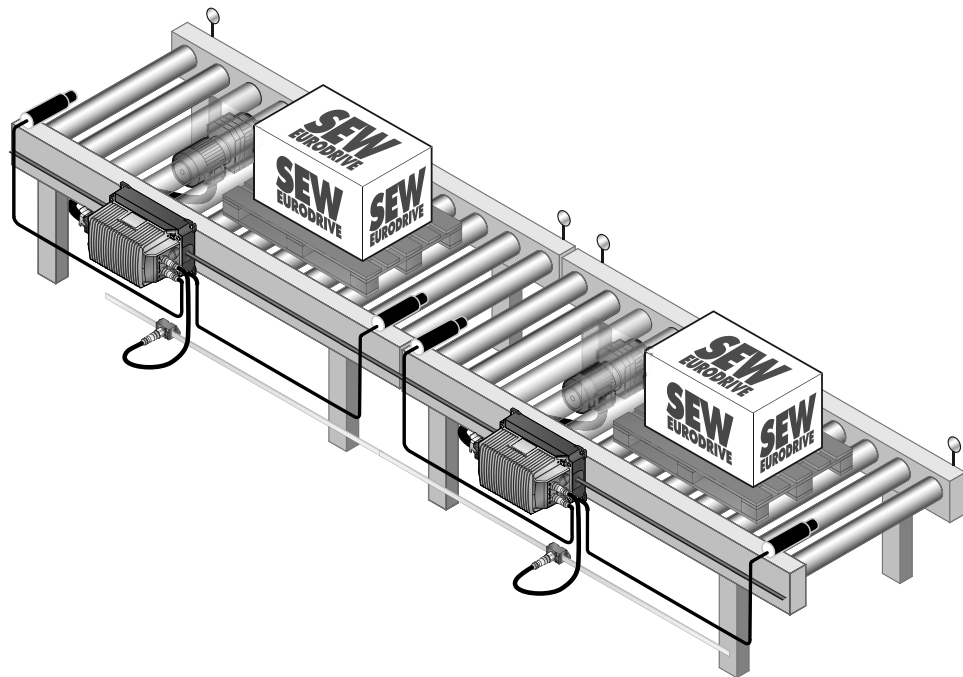
2 Configuration

2.1 Application examples

2.1.1 MOVIFIT® basic horizontal conveyor line

Horizontal conveyor lines can be implemented with the MOVIFIT® basic starter or the MOVIFIT® basic inverter.

The following figure gives an example of a roller conveyor with the MOVIFIT® basic inverter:

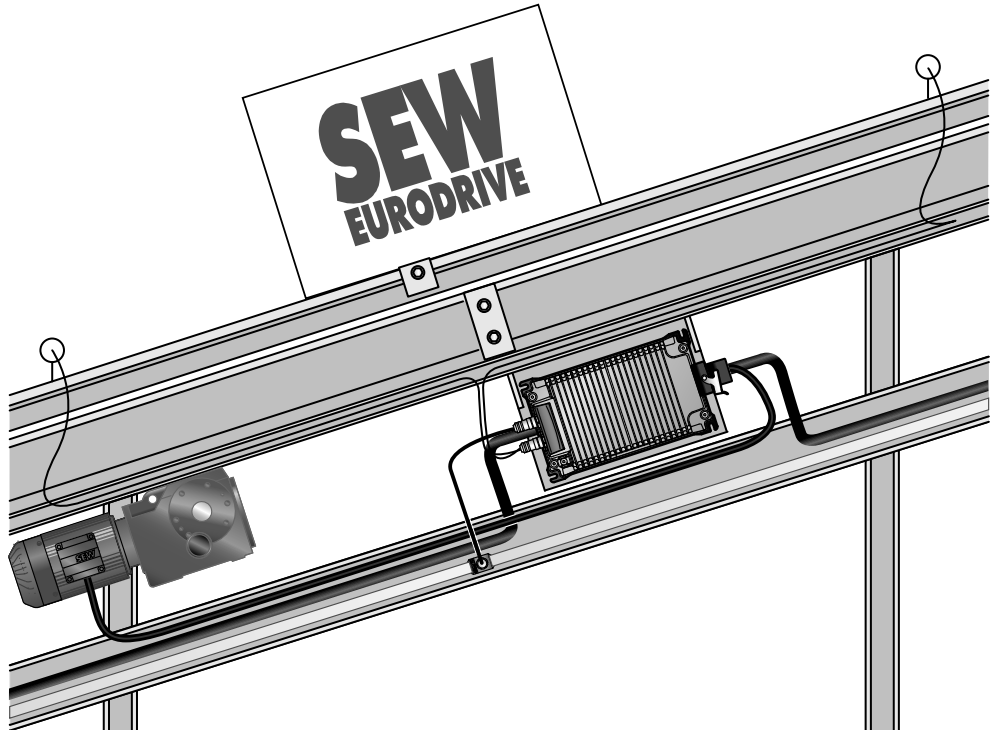


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2.1.2 MOVIFIT® basic inclined conveyor

Inclined conveyors can be implemented with the MOVIFIT® basic starter. The following figure gives an example of a chain conveyor with the MOVIFIT® basic starter:

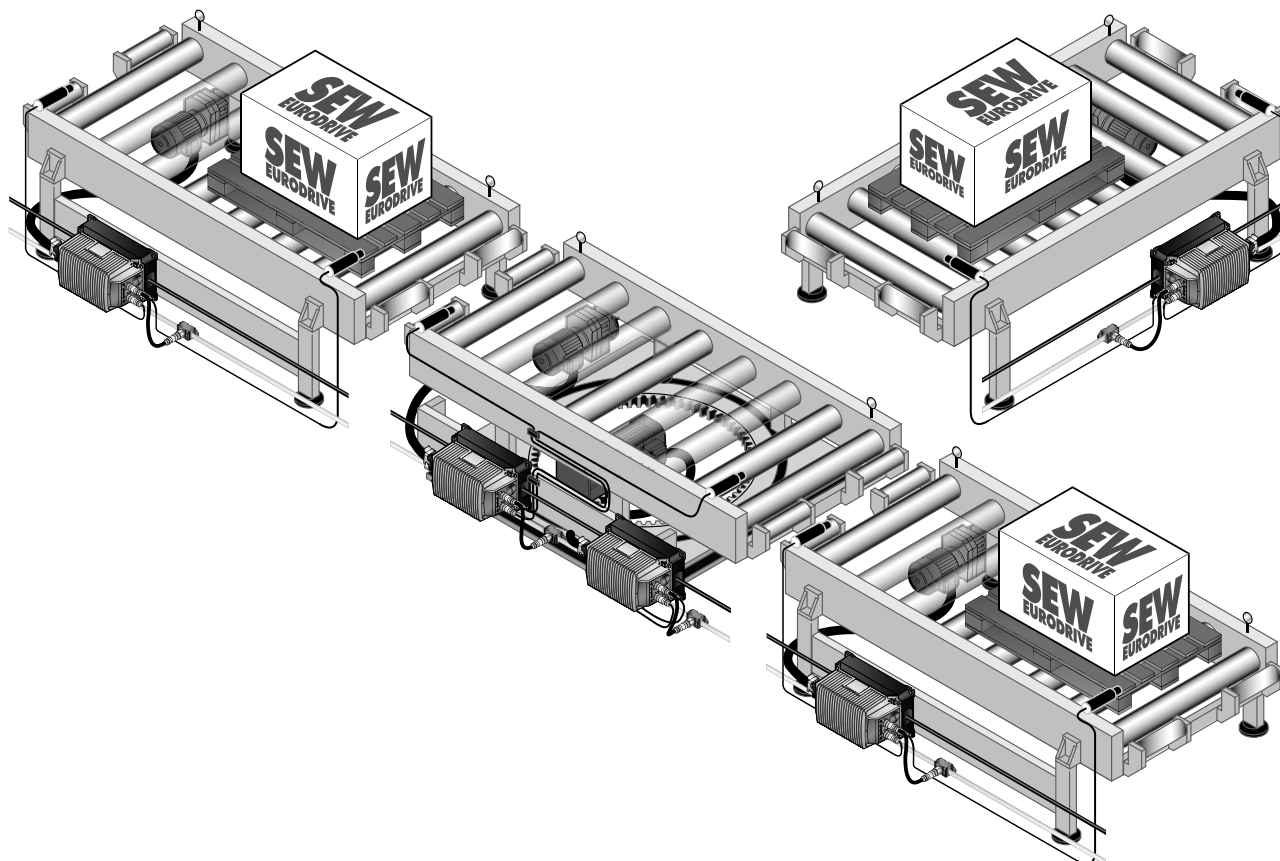


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2.1.3 MOVIFIT® basic rotary table

Simple rotary tables can be implemented with MOVIFIT® basic starters and inverters. The following example shows a rotary table created with MOVIFIT® basic starters and inverters:



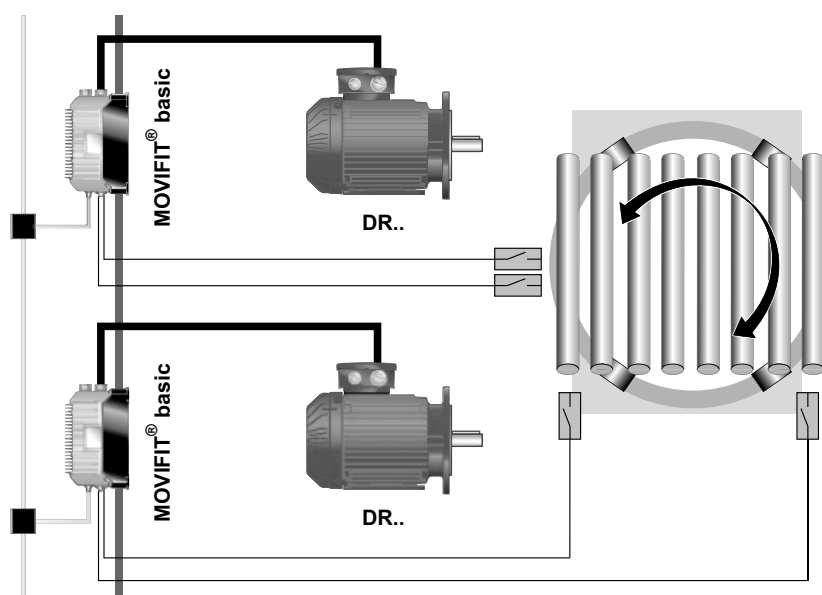
9445132555

Rotary motion:

MOVIFIT® basic inverter MBF15A-K1-A1

Horizontal motion:

MOVIFIT® basic starter MBS4RA-K1-A1

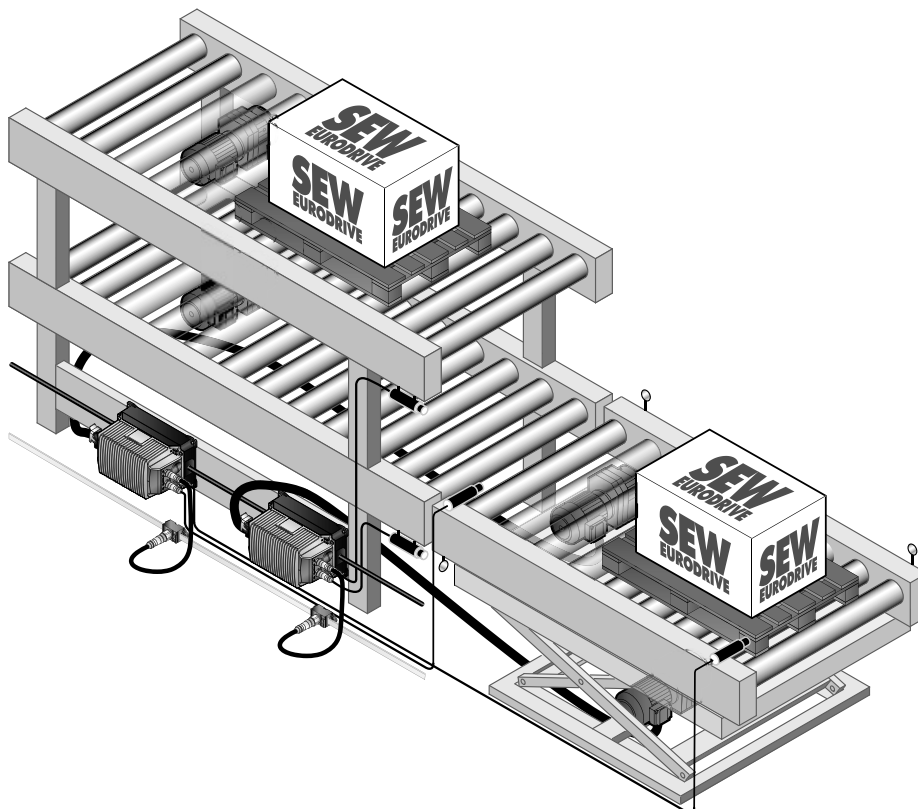


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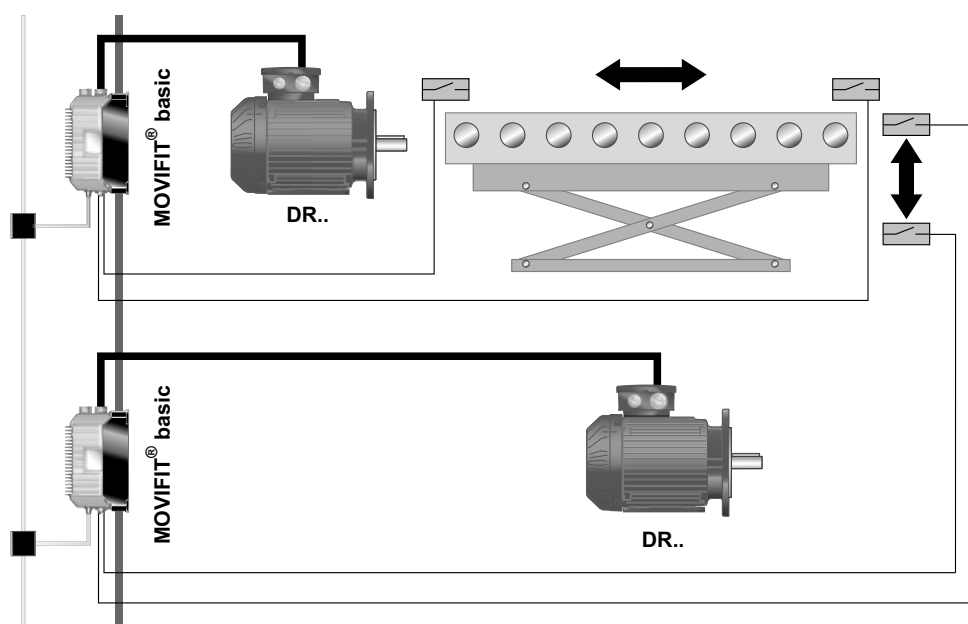
2.1.4 MOVIFIT® basic lifting table

Simple lifting tables can be implemented in line operation with MOVIFIT® basic starters. The following figure gives an example of a lifting table with MOVIFIT® basic starters:



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Lifting motion: MOVIFIT® basic starter MBS4RA-K1-A1
 Horizontal motion: MOVIFIT® basic starter MBS4RA-K1-A1



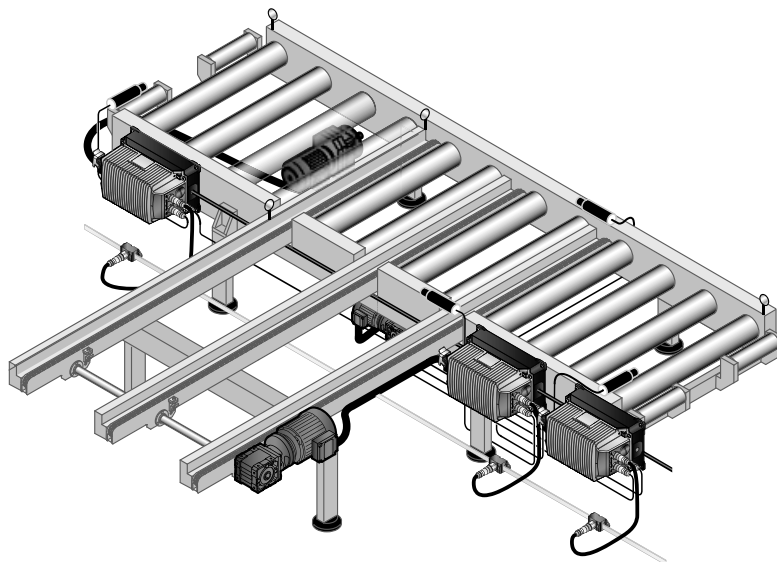
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2.1.5 MOVIFIT® basic corner transfer unit

Corner transfer units can be implemented with the MOVIFIT® basic starter.

The following figure gives an example of a corner transfer unit with MOVIFIT® basic starters:



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2.2 87 Hz characteristic

MOVIFIT® basic is suitable for operation with the 87 Hz characteristic.

In order to avoid overloading the inverter, the motor must be set to one performance level lower during configuration due to the higher performance throughput.

Example:

$$P_{\text{MBF}} = 1.5 \text{ kW}$$

$$P_{\text{Mot.}} = 1.1 \text{ kW}$$

2.3 Motor power

The following table shows the permitted motor power for MOVIFIT® basic:

MOVIFIT® basic Type	Possible motor power	Brake rectifier	
		Type	Voltage
MBF07A...A1	0.37 – 0.75 kW	BG	Brake voltage = Supply voltage U _{mains}
MBF15A...A1	1.1 – 1.5 kW		
MBS2RA...A1	0.18 – 1.1 kW	BG, BGE, BSR	
MBS4RA...A1	1.5 – 4.0 kW		
MBS4DA...A1	0.37 – 2.2 kW		



2.4 Accessories

You can order the following accessories for MOVIFIT[®] basic from SEW-EURODRIVE:

Accessories	Part number (SEW-EURODRIVE)
Motor connection cable 4 x 2.5 mm ² , unshielded, length = 3 m with plug connector Q8/0 – open conductor ends	1 814 874 3
Motor connection cable 7 x 2.5 mm ² , unshielded, length = 3 m with plug connector Q8/0 – open conductor ends	1 814 992 8

You can order the following accessories for MOVIFIT[®] basic from the company Weidmüller Interface GmbH & Co. KG (see www.weidmueller.com):

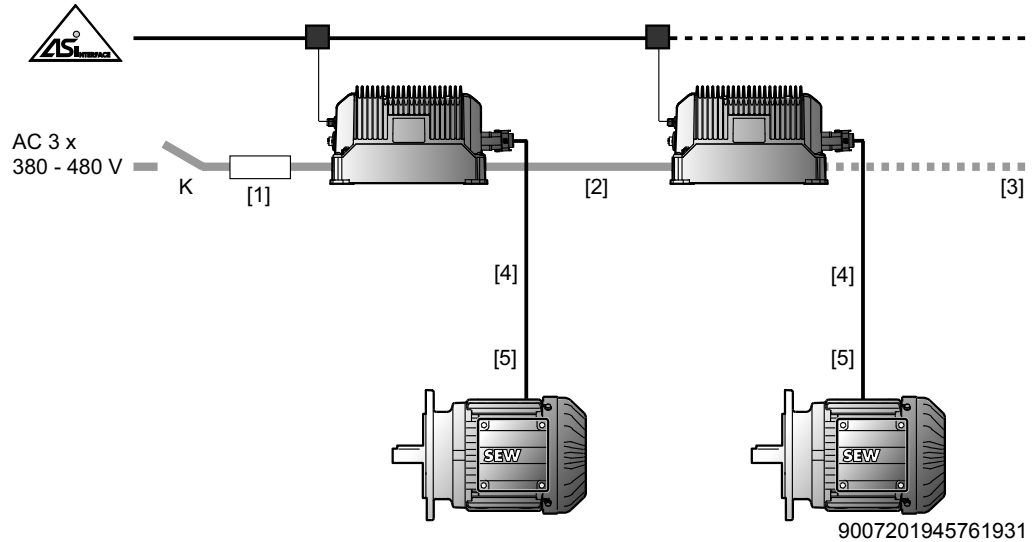
Accessories	Part number (Weidmüller)
Cable seal, for cables with Ø = 7.5 – 9 mm	4329610000
Cable seal, for cables with Ø = 9 – 11 mm	4323210000
Cable seal, for cables with Ø = 11 – 13 mm	4323230000
Cable seal for cables with Ø = 13 – 15 mm ¹⁾	4323220000
Cable seal, for cables with Ø = 15 – 17 mm	4324010000
Seal (without cable entry)	4323240000
Stripping tool AM 16 (for round cables)	9204190000
Stripping tool AMF 6/10 (for flat cables)	9204180000

1) The scope of delivery of MOVIFIT[®] basic units comprises 2 of those cable seals.



2.5 Power bus configuration

The following figure shows a typical MOVIFIT® basic drive system with AS-Interface control:



K: Line contactor



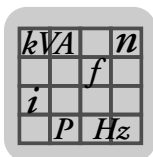
INFORMATION

The cable cross section of the power bus must be designed based on the total current of the connected devices.

Fuse for line protection Type	Power bus (power supply cable)		Motor cable	
	Minimum conductor cross section	Maximum total length	Minimum conductor cross section	Maximum length
[1]	[2]	[3]	[4]	[5]
B16	2.5 mm ² AWG14	130 m	1.5 mm ² AWG16	3 m
B16	2.5 mm ² AWG14	130 m	2.5 mm ² AWG14	10 m
B20	4.0 mm ² AWG12	170 m	2.5 mm ² AWG14	3 m
B25	6.0 mm ² AWG10	190 m	2.5 mm ² AWG14	3 m

The table shows typical characteristics at an ambient temperature of 40°C with routing type B2 according to EN 60204-1.

The applicable country-specific standards and regulations must also be observed for individual project planning and installation.

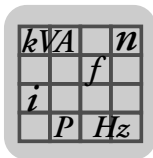


3 MOVIFIT® basic Technical Data

3.1 MOVIFIT® basic with AS-Interface

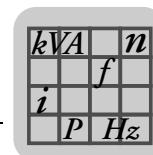
MOVIFIT® basic type		MBF07A-K1-A1	MBF15A-K1-A1	MBS4DA-K1-A1	MBS2RA-K1-A1	MBS4RA-K1-A1
Part number		18252451	18252486	18252524	28213300	18252508
		Inverter		Dual-motor starter	Reversing starter	
Apparent output power at $V_{line} = 380 - 480 \text{ V AC}$	S_N	1.8 kVA	2.8 kVA	6.9 kVA	1.7 kVA	6.9 kVA
Supply voltages Permitted range	V_{line}	3 x 380 V AC –10% – 480 V AC +10%				
Line frequency	f_{line}	50 – 60 Hz ±10%				
Nominal line current (with $V_{line} = 400 \text{ V AC}$)	I_{line}	2.9 A AC	5.4 A AC	10 A AC	2.5 A AC	10 A AC
Output voltage	V_O	0 – V_{line} Output is not short-circuit-proof		V_{line} Output is not short-circuit-proof		
Output frequency Resolution Operating point	f_O	2 – 120 Hz 0.01 Hz 400 V at 50 Hz		f_{line} – –		
Nominal output current	I_N	2.2 A AC	4.1 A AC	2 x 5.0 A AC	2.5 A AC	10.0 A AC
Motor power S1	P_{Mot}	0.75 kW 1.0 HP	1.5 kW 2.0 HP	2 x 2.2 kW 2 x 3.0 HP	1.1 kW 1.5 HP	4.0 kW 5.4 HP
PWM frequency		4 kHz (factory setting) 8/16 kHz		–		
Current limit (output is not short-circuit-proof)	I_{max}	Motoring operation: 150%, 60 s Regenerative operation: 150%, 2 s		None		
Maximum motor cable length		3 m unshielded 10 m shielded		10 m unshielded		
Interference immunity		complies with EN 61800-3				
Interference emission		Meets category C3 according to EN 61800-3				
Ambient temperature	ϑ_A	–10 °C to 40 °C P_N reduction: 3% I_N per K to max. 60° C				
Climate class		EN 60721-3-3, class 3K3				
Storage temperature ¹⁾		–30 °C to 85 °C (EN 60721-3-3, class 3K3)				
Maximum permitted vibration and impact load		According to EN 50178				
Degree of protection		IP54 (MOVIFIT® basic housing closed and all plug connections sealed).				
Operating mode		S1 (EN 60149-1-1 and 1-3)				
Type of cooling (DIN 41751)		Natural cooling				

1) If the unit is stored for a long time, connect it to the line voltage for at least 5 minutes every 2 years. Otherwise, the unit's service life may be reduced.



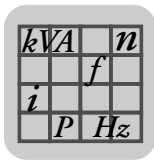
3.2 MOVIFIT® basic with binary control

MOVIFIT® basic type		MBF07A-B1-A1	MBF15A-B1-A1	MBS4DA-B1-A1	MBS2RA-B1-A1	MBS4RA-B1-A1
Part number		18252478	18252494	18252532	28213319	18252516
		Inverter		Dual-motor starter	Reversing starter	
Apparent output power at $V_{line} = 380 - 480 \text{ V AC}$	S_N	1.8 kVA	2.8 kVA	6.9 kVA	1.7 kVA	6.9 kVA
Supply voltages Permitted range	V_{line}	3 x 380 V AC -10% - 480 V AC +10%				
Line frequency	f_{line}	50 - 60 Hz ±10%				
Nominal line current (with $V_{line} = 400 \text{ V AC}$)	I_{line}	2.9 A AC	5.4 A AC	10 A AC	2.5 A AC	10 A AC
Output voltage	V_O	0 - V_{line} Output is not short-circuit-proof		V_{line} Output is not short-circuit-proof		
Output frequency Resolution Operating point	f_O	2 - 120 Hz 0.01 Hz 400 V at 50 Hz		f_{line} - -		
Nominal output current	I_N	2.2 A AC	4.1 A AC	2 x 5.0 A AC	2.5 A AC	10.0 A AC
Motor power S1	P_{Mot}	0.75 kW 1.0 HP	1.5 kW 2.0 HP	2 x 2.2 kW 2 x 3.0 HP	1.1 kW 1.5 HP	4.0 kW 5.4 HP
PWM frequency		4 (factory setting)/8/ 16 kHz		-		
Current limit (output is not short-circuit-proof)	I_{max}	Motoring operation: 150%, 60 s Regenerative operation: 150%, 2 s		None		
Maximum motor cable length		3 m unshielded 10 m shielded		10 m unshielded		
Interference immunity		Complies with EN 61800-3				
Interference emission		Meets category C3 according to EN 61800-3				
Ambient temperature	ϑ_A	10 °C - 40 °C P_N reduction: 3% I_N per K to max. 60°C				
Climate class		EN 60721-3-3, class 3K3				
Storage temperature ¹⁾		-30 °C - 85 °C (EN 60721-3-3, class 3K3)				
Maximum permitted vibration and impact load		According to EN 50178				
Degree of protection		IP54 (MOVIFIT® basic housing closed and all plug connections sealed).				
Operating mode		S1 (EN 60149-1-1 and 1-3)				
Type of cooling (DIN 41751)		Natural cooling				



MOVIFIT® basic type	MBF07A-B1-A1	MBF15A-B1-A1	MBS4DA-B1-A1	MBS2RA-B1-A1	MBS4RA-B1-A1
Part number	18252478	18252494	18252532	28213319	18252516
	Inverter		Dual-motor starter	Reversing starter	
Installation altitude	h ≤ 1000 m: no reduction h > 1000 m: I _N reduction by 1% per 100 m h > 2000 m: V _{line} reduction by 6 V AC per 100 m Overvoltage class 2 according to DIN 0110-1 h _{max} = 4000 m				
Weight	3.3 kg		3.0 kg	2.7 kg	
Dimensions	See chapter "Dimension drawings" in the operating instructions				
Required preventive measures	Grounding the unit				
Brake rectifier	BG brake rectifier for SEW brakemotors Brake voltage = supply voltage V _{line}				
4 digital inputs (X11, X12)	Isolated via optocoupler; PLC-compatible (EN 61131-2) R _i ≈ 3.0 kΩ, I _E ≈ 10 mA, sampling cycle ≤ 8 ms Signal level 13 V to 30 V = "1", contact closed –3 V to 5 V = "0", contact open Control functions DI0 – DI3, see chapter "Functions of MOVIFIT® basic with binary control"				
2 digital outputs (X13)	PLC-compatible in accordance with EN 61131-2 Signal level 15 V – 30 V "1" -3 V – 5 V "0" Rated current Max. 20 mA per output/ not sustained short-circuit-proof Signaling functions DO0 – DO1, see chapter "Functions of MOVIFIT® basic with binary control"				
DC 24 V output (X13)	Interference-voltage-proof and short-circuit-proof 24 V DC ± 25% Max. 100 mA minus the current load at digital outputs DO0+DO1				

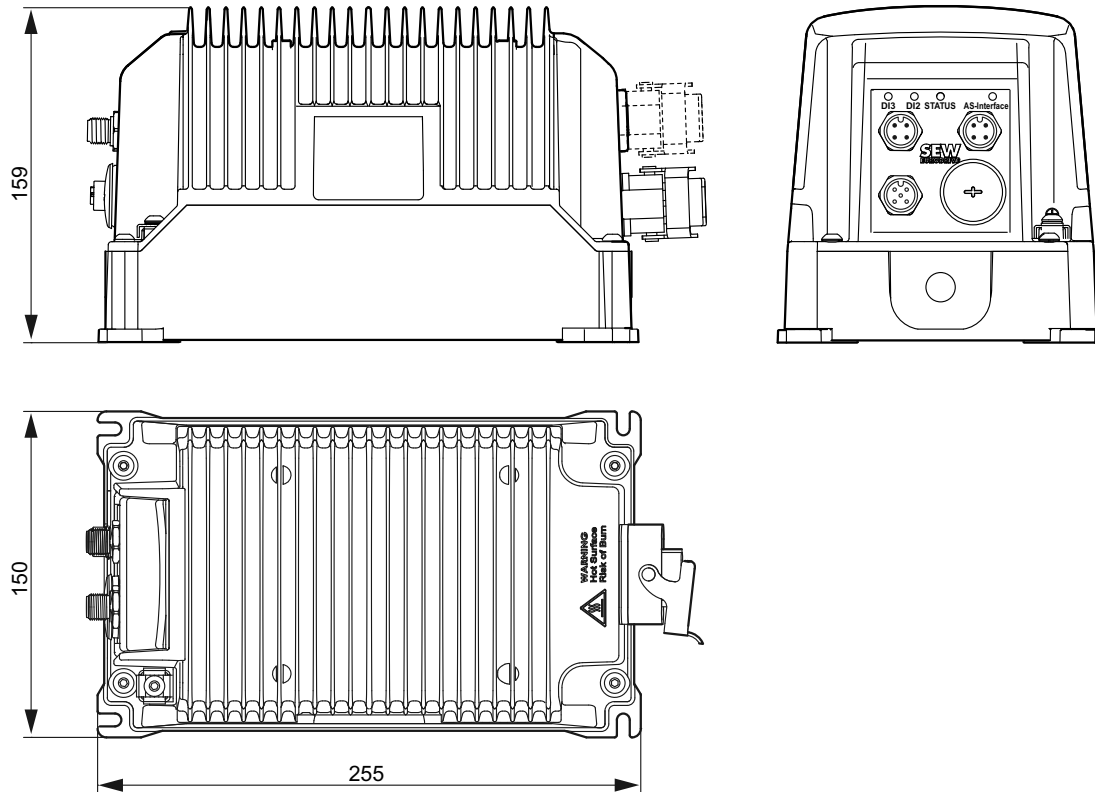
- 1) If the unit is stored for a long time, connect it to the line voltage for at least 5 minutes every 2 years. Otherwise, the unit's service life may be reduced.



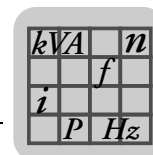
MOVIFIT® basic Technical Data

MOVIFIT® basic dimension drawing

3.3 MOVIFIT® basic dimension drawing



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4 Technical Data of Accessories

4.1 Operator panel

4.1.1 LT-BG



Type	LT-BG-00
Part number	1 820 864 9
Function	Operator terminal
Connection	with 3 m connection cable and RJ11 plug connector for connection to the X50 diagnostics interface
Degree of protection	IP54 (EN 60529) when installed in housing IP20 (EN 60529) uninstalled
Ambient temperature	0°C – 50°C
Storage temperature	0°C – 60°C

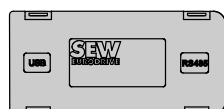
4.1.2 MB-LC



Type	MB-LC-00
Part number	2 820 126 4
Function	Operator terminal
Connection	with 1 m connection cable and RJ11 plug connector for connection to the X50 diagnostics interface
Degree of protection	IP54 (EN 60529) when installed in housing IP20 (EN 60529) uninstalled
Ambient temperature	0°C – 50°C
Storage temperature	0°C – 60°C

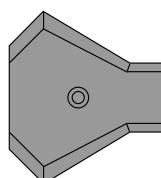
4.2 Accessories for PC connection

4.2.1 USB11A

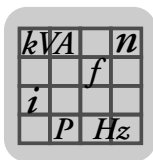


Type	USB11A
Part number	0 824 831 1
Function	USB – RS485 interface adapter
Scope of delivery	– USB11A interface adapter – USB cable – Cable with RJ10 – RJ10 plug connectors

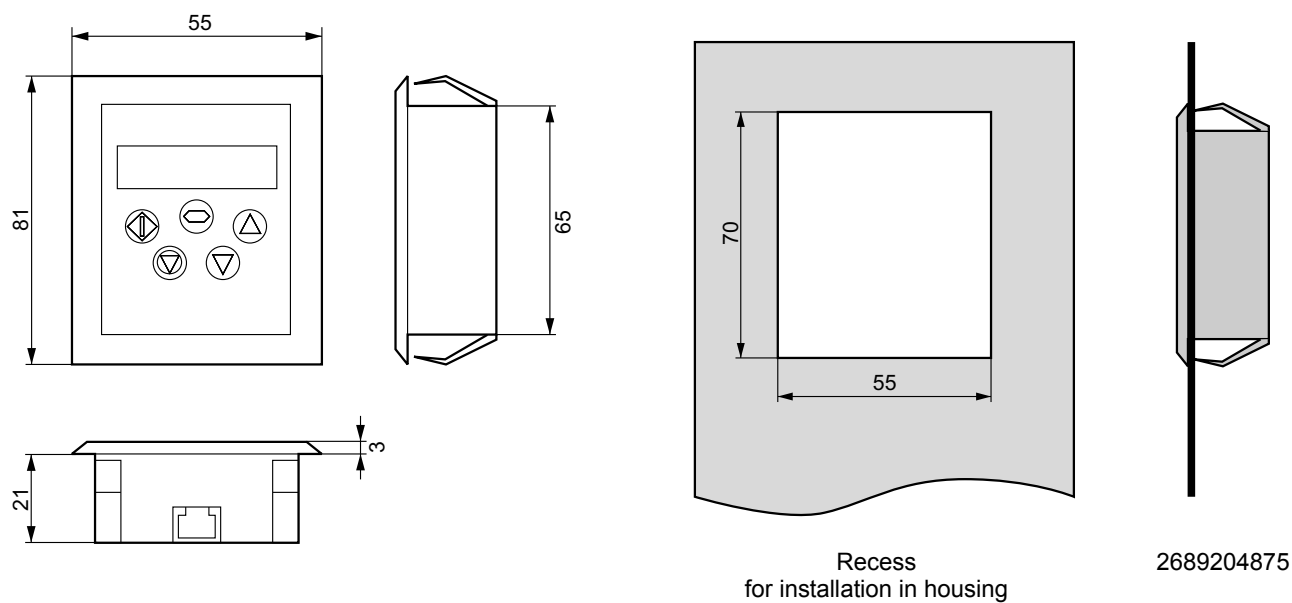
4.2.2 OP LT 003 C



Type	OP LT 003 C
Part number	1 824 368 1
Function	RJ10 – RJ45 adapter DC 24 V -> DC 5 V voltage converter
Scope of delivery	– OP LT 003 C adapter – Cable with RJ45 – RJ11 plug connectors



4.3 Dimension drawing of LT-BG / MB-LC operator terminal



The operator terminal meets the requirements of IP54 when installed correctly in a housing.



5 Address List

Germany			
Headquarters Production Sales	Bruchsal	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 D-76646 Bruchsal P.O. Box Postfach 3023 • D-76642 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-1970 http://www.sew-eurodrive.de sew@sew-eurodrive.de
	Bruchsal	SEW-EURODRIVE GmbH & Co KG Christian-Pähr-Str.10 D-76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-2970
	Mechanics / Mechatronics	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 1 D-76676 Graben-Neudorf	Tel. +49 7251 75-1710 Fax +49 7251 75-1711 sc-mitte@sew-eurodrive.de
Electronics		SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 D-76646 Bruchsal	Tel. +49 7251 75-1780 Fax +49 7251 75-1769 sc-elektronik@sew-eurodrive.de
Drive Technology Center	North	SEW-EURODRIVE GmbH & Co KG Alte Ricklinger Straße 40-42 D-30823 Garbsen (near Hannover)	Tel. +49 5137 8798-30 Fax +49 5137 8798-55 sc-nord@sew-eurodrive.de
	East	SEW-EURODRIVE GmbH & Co KG Dänkritzter Weg 1 D-08393 Meerane (near Zwickau)	Tel. +49 3764 7606-0 Fax +49 3764 7606-30 sc-ost@sew-eurodrive.de
	South	SEW-EURODRIVE GmbH & Co KG Domagkstraße 5 D-85551 Kirchheim (near München)	Tel. +49 89 909552-10 Fax +49 89 909552-50 sc-sued@sew-eurodrive.de
	West	SEW-EURODRIVE GmbH & Co KG Siemensstraße 1 D-40764 Langenfeld (near Düsseldorf)	Tel. +49 2173 8507-30 Fax +49 2173 8507-55 sc-west@sew-eurodrive.de
	Drive Service Hotline / 24 Hour Service		+49 800 SEWHELP +49 800 7394357
	Additional addresses for service in Germany provided on request!		
France			
Production Sales Service	Hagenau	SEW-USOCOME 48-54 route de Soufflenheim B. P. 20185 F-67506 Hagenau Cedex	Tel. +33 3 88 73 67 00 Fax +33 3 88 73 66 00 http://www.usocomme.com sew@usocomme.com
Production	Forbach	SEW-USOCOME Zone industrielle Technopôle Forbach Sud B. P. 30269 F-57604 Forbach Cedex	Tel. +33 3 87 29 38 00
Assembly Sales Service	Bordeaux	SEW-USOCOME Parc d'activités de Magellan 62 avenue de Magellan - B. P. 182 F-33607 Pessac Cedex	Tel. +33 5 57 26 39 00 Fax +33 5 57 26 39 09
	Lyon	SEW-USOCOME Parc d'affaires Roosevelt Rue Jacques Tati F-69120 Vaulx en Velin	Tel. +33 4 72 15 37 00 Fax +33 4 72 15 37 15
	Nantes	SEW-USOCOME Parc d'activités de la forêt 4 rue des Fontenelles F-44140 Le Bignon	Tel. +33 2 40 78 42 00 Fax +33 2 40 78 42 20



France			
	Paris	SEW-USOCOME Zone industrielle 2 rue Denis Papin F-77390 Verneuil l'Etang	Tel. +33 1 64 42 40 80 Fax +33 1 64 42 40 88
Additional addresses for service in France provided on request!			
Algeria			
Sales	Algiers	REDUCOM Sarl 16, rue des Frères Zaghroune Bellevue 16200 El Harrach Alger	Tel. +213 21 8214-91 Fax +213 21 8222-84 info@reducom-dz.com http://www.reducom-dz.com
Argentina			
Assembly Sales	Buenos Aires	SEW EURODRIVE ARGENTINA S.A. Ruta Panamericana Km 37.5, Lote 35 (B1619IEA) Centro Industrial Garín Prov. de Buenos Aires	Tel. +54 3327 4572-84 Fax +54 3327 4572-21 sewar@sew-eurodrive.com.ar http://www.sew-eurodrive.com.ar
Australia			
Assembly Sales Service	Melbourne	SEW-EURODRIVE PTY. LTD. 27 Beverage Drive Tullamarine, Victoria 3043	Tel. +61 3 9933-1000 Fax +61 3 9933-1003 http://www.sew-eurodrive.com.au enquires@sew-eurodrive.com.au
	Sydney	SEW-EURODRIVE PTY. LTD. 9, Sleigh Place, Wetherill Park New South Wales, 2164	Tel. +61 2 9725-9900 Fax +61 2 9725-9905 enquires@sew-eurodrive.com.au
Austria			
Assembly Sales Service	Wien	SEW-EURODRIVE Ges.m.b.H. Richard-Strauss-Strasse 24 A-1230 Wien	Tel. +43 1 617 55 00-0 Fax +43 1 617 55 00-30 http://www.sew-eurodrive.at sew@sew-eurodrive.at
Belarus			
Sales	Minsk	SEW-EURODRIVE BY RybalkoStr. 26 BY-220033 Minsk	Tel. +375 17 298 47 56 / 298 47 58 Fax +375 17 298 47 54 http://www.sew.by sales@sew.by
Belgium			
Assembly Sales Service	Brussels	SEW-EURODRIVE n.v./s.a. Researchpark Haasrode 1060 Evenementenlaan 7 BE-3001 Leuven	Tel. +32 16 386-311 Fax +32 16 386-336 http://www.sew-eurodrive.be info@sew-eurodrive.be
Service Competence Center	Industrial Gears	SEW-EURODRIVE n.v./s.a. Rue de Parc Industriel, 31 BE-6900 Marche-en-Famenne	Tel. +32 84 219-878 Fax +32 84 219-879 http://www.sew-eurodrive.be service-wallonie@sew-eurodrive.be
Brazil			
Production Sales Service	São Paulo	SEW-EURODRIVE Brasil Ltda. Avenida Amâncio Gaiolli, 152 - Rodovia Presidente Dutra Km 208 Guarulhos - 07251-250 - SP SAT - SEW ATENDE - 0800 7700496	Tel. +55 11 2489-9133 Fax +55 11 2480-3328 http://www.sew-eurodrive.com.br sew@sew.com.br



Brazil			
Assembly Sales Service	Rio Claro	SEW-EURODRIVE Brasil Ltda. Rodovia Washington Luiz, Km 172 Condomínio Industrial Conpark Caixa Postal: 327 13501-600 – Rio Claro / SP	Tel. +55 19 3522-3100 Fax +55 19 3524-6653 montadora.rc@sew.com.br
	Joinville	SEW-EURODRIVE Brasil Ltda. Rua Dona Francisca, 12.346 – Pirabeiraba 89239-270 – Joinville / SC	Tel. +55 47 3027-6886 Fax +55 47 3027-6888 filial.sc@sew.com.br
	Indaiatuba	SEW-EURODRIVE Brasil Ltda. Estrada Municipal Jose Rubim, 205 Rodovia Santos Dumont Km 49 13347-510 - Indaiatuba / SP	Tel. +55 19 3835-8000 sew@sew.com.br
Bulgaria			
Sales	Sofia	BEVER-DRIVE GmbH Bogdanovetz Str.1 BG-1606 Sofia	Tel. +359 2 9151160 Fax +359 2 9151166 bever@bever.bg
Cameroon			
Sales	Douala	Electro-Services Rue Drouot Akwa B.P. 2024 Douala	Tel. +237 33 431137 Fax +237 33 431137 electrojemba@yahoo.fr
Canada			
Assembly Sales Service	Toronto	SEW-EURODRIVE CO. OF CANADA LTD. 210 Walker Drive Bramalea, ON L6T 3W1	Tel. +1 905 791-1553 Fax +1 905 791-2999 http://www.sew-eurodrive.ca l.watson@sew-eurodrive.ca
	Vancouver	SEW-EURODRIVE CO. OF CANADA LTD. Tilbury Industrial Park 7188 Honeyman Street Delta, BC V4G 1G1	Tel. +1 604 946-5535 Fax +1 604 946-2513 b.wake@sew-eurodrive.ca
	Montreal	SEW-EURODRIVE CO. OF CANADA LTD. 2555 Rue Leger Lasalle, PQ H8N 2V9	Tel. +1 514 367-1124 Fax +1 514 367-3677 a.peluso@sew-eurodrive.ca
Additional addresses for service in Canada provided on request!			
Chile			
Assembly Sales Service	Santiago	SEW-EURODRIVE CHILE LTDA. Las Encinas 1295 Parque Industrial Valle Grande LAMP RCH-Santiago de Chile P.O. Box Casilla 23 Correo Quilicura - Santiago - Chile	Tel. +56 2 2757 7000 Fax +56 2 2757 7001 http://www.sew-eurodrive.cl ventas@sew-eurodrive.cl
China			
Production Assembly Sales Service	Tianjin	SEW-EURODRIVE (Tianjin) Co., Ltd. No. 46, 7th Avenue, TEDA Tianjin 300457	Tel. +86 22 25322612 Fax +86 22 25323273 info@sew-eurodrive.cn http://www.sew-eurodrive.cn
	Tianjin	SEW Industrial Gears (Tianjin) Co., Ltd. No.38,9th Avenue, TEDA Tianjin 300457	Tel. +86 22 25322612 Fax +86 22 25323273 logistic@sew-eurodrive.cn http://www.sew-eurodrive.cn



China			
Assembly Sales Service	Suzhou	SEW-EURODRIVE (Suzhou) Co., Ltd. 333, Suhong Middle Road Suzhou Industrial Park Jiangsu Province, 215021	Tel. +86 512 62581781 Fax +86 512 62581783 suzhou@sew-eurodrive.cn
	Guangzhou	SEW-EURODRIVE (Guangzhou) Co., Ltd. No. 9, JunDa Road East Section of GETDD Guangzhou 510530	Tel. +86 20 82267890 Fax +86 20 82267922 guangzhou@sew-eurodrive.cn
	Shenyang	SEW-EURODRIVE (Shenyang) Co., Ltd. 10A-2, 6th Road Shenyang Economic Technological Development Area Shenyang, 110141	Tel. +86 24 25382538 Fax +86 24 25382580 shenyang@sew-eurodrive.cn
	Wuhan	SEW-EURODRIVE (Wuhan) Co., Ltd. 10A-2, 6th Road No. 59, the 4th Quanli Road, WEDA 430056 Wuhan	Tel. +86 27 84478388 Fax +86 27 84478389 wuhan@sew-eurodrive.cn
	Xi'An	SEW-EURODRIVE (Xi'An) Co., Ltd. No. 12 Jinye 2nd Road Xi'An High-Technology Industrial Development Zone Xi'An 710065	Tel. +86 29 68686262 Fax +86 29 68686311 xian@sew-eurodrive.cn
Additional addresses for service in China provided on request!			
Colombia			
Assembly Sales Service	Bogotá	SEW-EURODRIVE COLOMBIA LTDA. Calle 22 No. 132-60 Bodega 6, Manzana B Santafé de Bogotá	Tel. +57 1 54750-50 Fax +57 1 54750-44 http://www.sew-eurodrive.com.co sew@sew-eurodrive.com.co
Croatia			
Sales Service	Zagreb	KOMPEKS d. o. o. Zeleni dol 10 HR 10 000 Zagreb	Tel. +385 1 4613-158 Fax +385 1 4613-158 kompeks@inet.hr
Czech Republic			
Sales Assembly Service	Hostivice	SEW-EURODRIVE CZ s.r.o. Floriánova 2459 253 01 Hostivice	Tel. +420 255 709 601 Fax +420 235 350 613 http://www.sew-eurodrive.cz sew@sew-eurodrive.cz
	Drive Service Hotline / 24 Hour Service	HOT-LINE +420 800 739 739 (800 SEW SEW)	Servis: Tel. +420 255 709 632 Fax +420 235 358 218 servis@sew-eurodrive.cz
Denmark			
Assembly Sales Service	Copenhagen	SEW-EURODRIVE A/S Geminivej 28-30 DK-2670 Greve	Tel. +45 43 9585-00 Fax +45 43 9585-09 http://www.sew-eurodrive.dk sew@sew-eurodrive.dk
Egypt			
Sales Service	Cairo	Copam Egypt for Engineering & Agencies 33 El Hegaz ST, Heliopolis, Cairo	Tel. +20 2 22566-299 +1 23143088 Fax +20 2 22594-757 http://www.copam-egypt.com/ copam@datum.com.eg



Estonia			
Sales	Tallin	ALAS-KUUL AS Reti tee 4 EE-75301 Peetri küla, Rae vald, Harjumaa	Tel. +372 6593230 Fax +372 6593231 veiko.soots@alas-kuul.ee
Finland			
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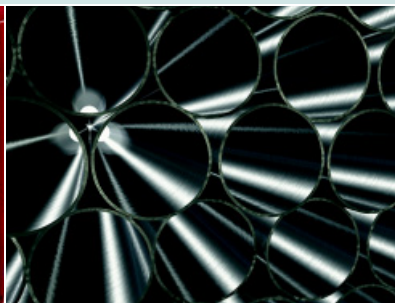
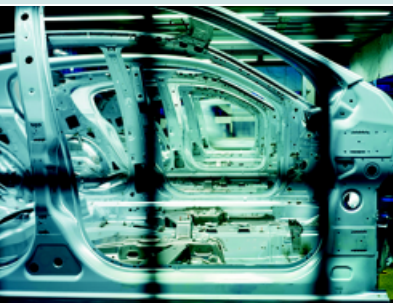
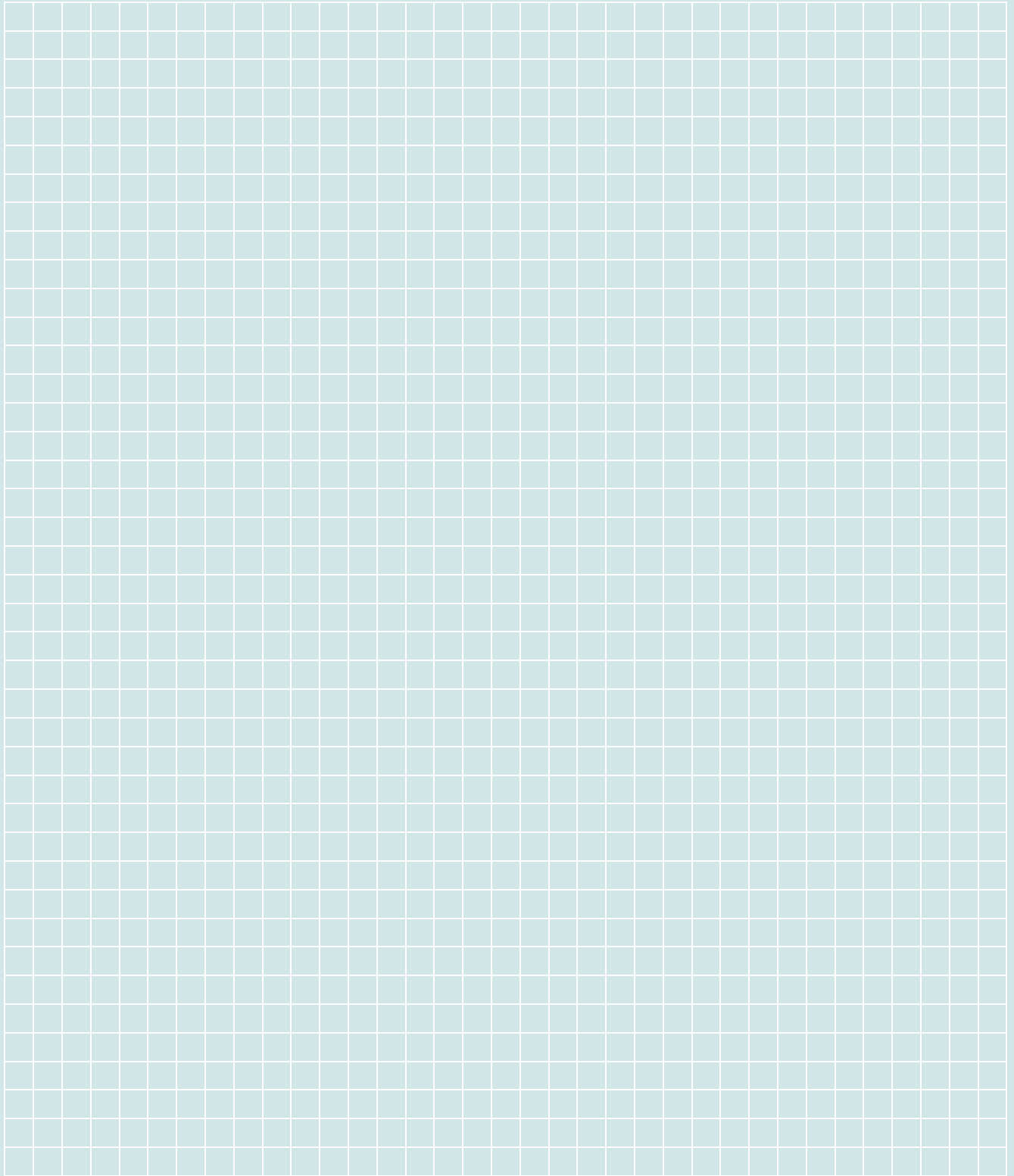
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