SEW EURODRIVE

Catalog



MOVITRAC® LTE-B+

Edition 06/2016

22907653/EN



Contents

1 System description 4
1.1 Technology 4
1.2 System overview of MOVITRAC® LTE-B 5
1.3 The inverters at a glance 6
1.4 Grid compatibility 8
1.5 Markets and applications 8
1.6 Technical features 9
1.7 Accessories 9
1.8 Input voltage ranges 10
1.9 Protection functions 10
1.10 Conformity 11
1.11 Type designation 11
1.12 User interface 12
1.13 Overview of signal terminals 13
1.14 Communication socket RJ45 15

2 Technical data 16
2.1 Electromagnetic compatibility 16
2.2 Information on ambient conditions 17
2.3 Output power and current carrying capacity without EMC filter 18
2.4 Output power and current carrying capacity with EMC filter 19
2.5 Housing variants and dimensions 23
2.6 IP20 housing: assembly and installation space 26

3 Technical data of options and variants 27
3.1 Remote keypad LT BG-C 27
3.2 LT BG OLED A remote keypad 27
3.3 Network connection packages 29
3.4 Second relay output 32
3.5 Two signal relays 34
3.6 Converter card 36
3.7 OB LT LOCMO control board 38
3.8 Parameter module 39
3.9 Fieldbus gateways 40

4 Technical data – system accessories 42
4.1 Braking resistors 42
4.2 Line chokes 47
4.3 Output chokes 51
4.4 Shield plate IP20 53

5 Motor selection 54
5.1 Project planning flowchart 54
5.2 Combination for inverter and motor 55

6 Address list 56

Index 67

22907653/EN – 06/2016

1 System description

1.1 Technology

The MOVITRAC® LTE-B+ device family is the entry level product series of the powerful frequency inverter portfolio from SEW-EURODRIVE. The devices are characterized by a simple installation and startup philosophy, together with a powerful range of functions for this class.

The power spectrum ranges from 0.37 kW up to a maximum rating of 11 kW for the IP20 design.

Inverters are available with an IP66 degree of protection for use in environments that are heavily subjected to dust and splash water. These inverters are available with and without integrated switches.

All variants feature an integrated keypad as standard, which, in combination with the removable "Helpcard", enables simple and intuitive startup and operating procedures.

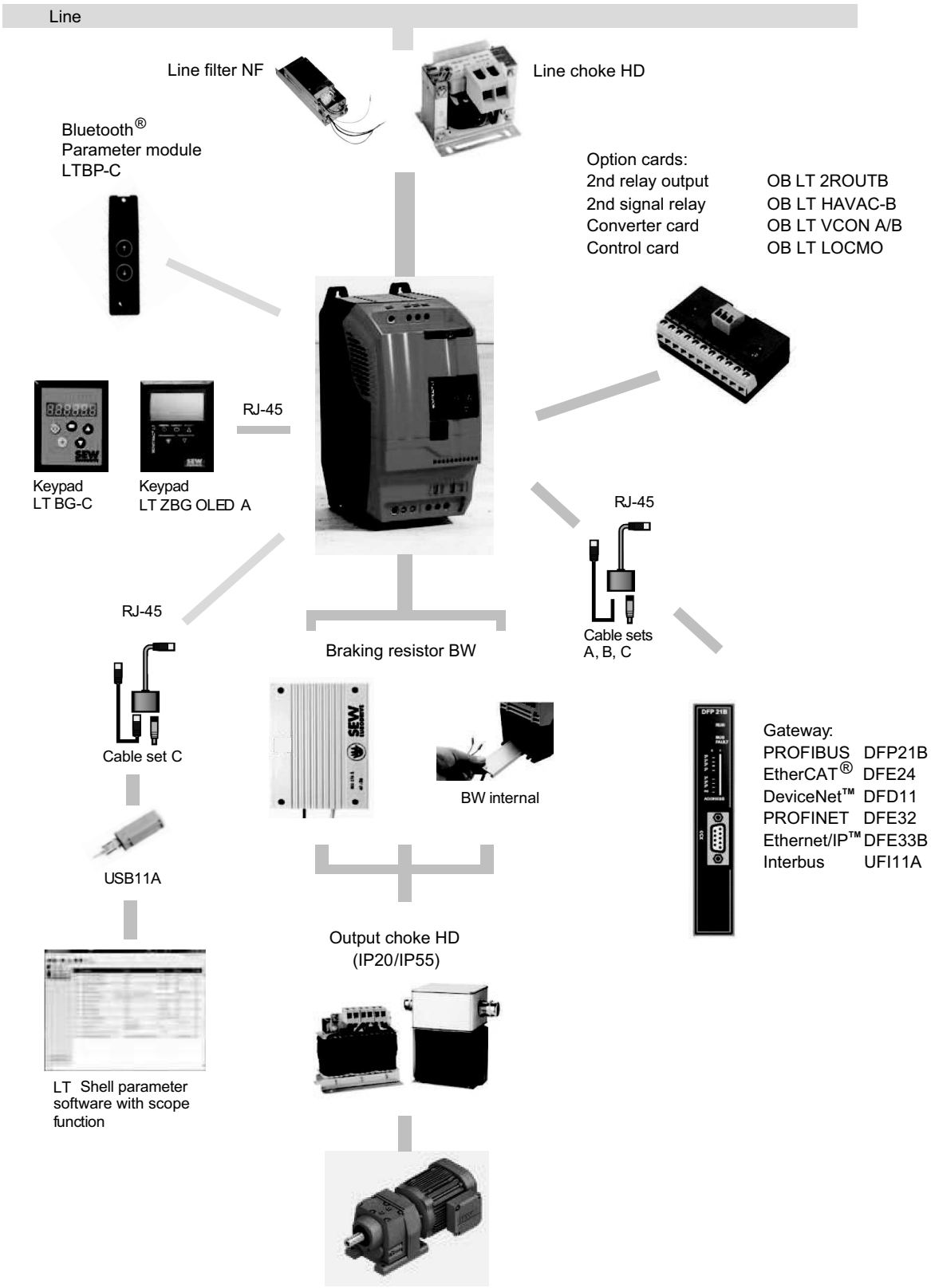
In addition to a simple V/f voltage control system, all LTE-B+ devices are also equipped with a field-oriented open-loop vector control unit, which enables both the optimized operation of AC asynchronous motors, as well as the additional operation of other motor types, such as the LSPM (Line Start Permanent Magnet Motor) IE4 drive from SEW-EURODRIVE:

Extensive diagnostics methods are available to the user to guarantee smooth operation of the system and to ensure minimal downtime. In addition to 40 diagnostics parameters, MOVITRAC® LTE-B+ also offers a powerful scope function, which can be operated via the LT Shell software.

The extensive functionality is rounded off by the standard bus systems, namely Modbus RTU, CANopen, and SEW-EURODRIVE SBus, which enable the MOVITRAC® LTE-B+ to be easily integrated into the fieldbus network on the system side.

22907653/EN – 06/2016

1.2 System overview of MOVITRAC® LTE-B



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1.3 The inverters at a glance

1.3.1 MOVITRAC® LTE-B+ without filter

Line connection	Motor power	Nominal output current	Type designation	Degree of protection	Size
115 V 1-phase	0.37 kW	2.3 A	MC LTE-B0004-101-1-00	IP20	1
			MC LTE-B0004-101-1-30	IP66	1
			MC LTE-B0004-101-1-40	IP66	1
	0.75 kW	4.3 A	MC LTE-B0008-101-1-00	IP20	1
			MC LTE-B0008-101-1-30	IP66	1
			MC LTE-B0008-101-1-40	IP66	1
	1.1 kW	5.8 A	MC LTE-B0011-101-4-00	IP20	2
			MC LTE-B0011-101-4-30	IP66	2
			MC LTE-B0011-101-4-40	IP66	2
230 V 3-phase	0.37 kW	2.3 A	MC LTE-B0004-203-1-00	IP20	1
	0.75 kW	4.3 A	MC LTE-B0008-203-1-00	IP20	1
	1.5 kW	7.0 A	MC LTE-B0015-203-1-00	IP20	1

22907653/EN – 06/2016

1.3.2 MOVITRAC® LTE-B+ with filter

Line connection	Motor power	Nominal output current	Type designation	Degree of protection	Size
230 V 1-phase	0.37 kW	2.3 A	MC LTE-B0004-2B1-1-00	IP20	1
			MC LTE-B0004-2B1-1-30	IP66	1
			MC LTE-B0004-2B1-1-40	IP66	1
	0.75 kW	4.3 A	MC LTE-B0008-2B1-1-00	IP20	1
			MC LTE-B0008-2B1-1-30	IP66	1
			MC LTE-B0008-2B1-1-40	IP66	1
	1.5 kW	7.0 A	MC LTE-B0015-2B1-1-00	IP20	1
			MC LTE-B0015-2B1-1-30	IP66	1
			MC LTE-B0015-2B1-1-40	IP66	1
	1.5 kW	7.0 A	MC LTE-B0015-2B1-4-00	IP20	2
			MC LTE-B0015-2B1-4-30	IP66	2
			MC LTE-B0015-2B1-4-40	IP66	2
	2.2 kW	10.5 A	MC LTE-B0022-2B1-4-00	IP20	2
			MC LTE-B0022-2B1-4-30	IP66	2
			MC LTE-B0022-2B1-4-40	IP66	2
	4.0 kW	16 A	MC LTE-B0040-2B1-4-00	IP20	3
			MC LTE-B0040-2B1-4-30	IP66	3
			MC LTE-B0040-2B1-4-40	IP66	3
230 V 3-phase	1.5 kW	7.0 A	MC LTE-B0015-2A3-4-00	IP20	2
			MC LTE-B0015-2A3-4-30	IP66	2
			MC LTE-B0015-2A3-4-40	IP66	2
	2.2 kW	10.5 A	MC LTE-B0022-2A3-4-00	IP20	2
			MC LTE-B0022-2A3-4-30	IP66	2
			MC LTE-B0022-2A3-4-40	IP66	2
	4.0 kW	18 A	MC LTE-B0040-2A3-4-00	IP20	3
			MC LTE-B0040-2A3-4-30	IP66	3
			MC LTE-B0040-2A3-4-40	IP66	3
400 V 3-phase	0.75 kW	2.2 A	MC LTE-B0008-5A3-1-00	IP20	1
			MC LTE-B0008-5A3-1-30	IP66	1
			MC LTE-B0008-5A3-1-40	IP66	1
	1.5 kW	4.1 A	MC LTE-B0015-5A3-1-00	IP20	1
			MC LTE-B0015-5A3-1-30	IP66	1
			MC LTE-B0015-5A3-1-40	IP66	1
	1.5 kW	4.1 A	MC LTE-B0015-5A3-4-00	IP20	2
			MC LTE-B0015-5A3-4-30	IP66	2
			MC LTE-B0015-5A3-4-40	IP66	2
	2.2 kW	5.8 A	MC LTE-B0022-5A3-4-00	IP20	2
			MC LTE-B0022-5A3-4-30	IP66	2
			MC LTE-B0022-5A3-4-40	IP66	2
	4.0 kW	9.5 A	MC LTE-B0040-5A3-4-00	IP20	2
			MC LTE-B0040-5A3-4-30	IP66	2
			MC LTE-B0040-5A3-4-40	IP66	2
	5.5 kW	14.0 A	MC LTE-B0055-5A3-4-00	IP20	3
			MC LTE-B0055-5A3-4-30	IP66	3
			MC LTE-B0055-5A3-4-40	IP66	3
	7.5 kW	18.0 A	MC LTE-B0075-5A3-4-00	IP20	3
			MC LTE-B0075-5A3-4-30	IP66	3
			MC LTE-B0075-5A3-4-40	IP66	3
	11.0 kW	24.0 A	MC LTE-B0110-5A3-4-00	IP20	3

22907653/EN – 06/2016

1.4 Grid compatibility

MOVITRAC® LTE-B+ is designed for direct connection to voltage supply systems used worldwide. The single-phase 115 V voltage doubler operates on a 115 V supply system. The 220 V device operates on a 220 to 240 V supply system with one or three phases. The three-phase 380 V device operates on a 380 to 480 V supply system with three phases.

1.5 Markets and applications

The MOVITRAC® LTE-B+ product series is intended for a wide market that requires general speed control. End customers with large quantities as well as OEMs benefit from this series, as the time needed for startup is reduced significantly due to the user-friendliness and the innovative mechanical design.

The simple but powerful functions as well as the available accessories make MOVITRAC® LTE-B+ suited for a wide variety of applications.

Typical applications are:

- Pumps for water supply systems, the paper industry, and sewage systems
- Temperature control systems for air-conditioners, energy efficient applications, and refrigeration systems
- Compressors for refrigeration systems and compressed-air systems
- Conveyor belts

22907653/EN – 06/2016

1.6 Technical features

Power range of the IP20 device	0.37 kW – 11 kW
Power range of the IP66 device	0.37 kW – 7 kW
Sizes	3
Input voltage	1 × 115 V, 1 × 230 V, 3 × 230 V, 3 × 400 V
Control modes	V/f, VFC (open loop)
Digital inputs	Max. 4
Analog inputs	Max. 2
Analog outputs	1
Relay contacts	1
4-quadrant operation (connection of a braking resistor to reduce regenerative energy)	Yes, with size 2 and up
Fixed setpoint speeds	4
Integrated process controller	Yes, PI controller
HVAC functions	Flying start function, DC braking, fire mode / emergency mode, master/slave function
Integrated EMC input filter	Yes[1)]
Engineering interfaces	Integrated keypad, LT Shell software via optional network package
Communication	SEW-EURODRIVE SBus, CANopen, Modbus RTU
Overload capacity	150% for 50 seconds 175% for 2 seconds

1) except 1 × 115 V and 3 × 230 V to 1.5 kW.

1.7 Accessories

- External EMC filter
- Line choke, reduces harmonics and offers additional protection for the drive
- Output choke, improves the output wave shape, for long motor cables
- Second output relay for a second progammable relay output
- Remote keypad
- Gateway DFx
- Braking resistors

INFORMATION

Detailed information regarding accessories can be found in the chapter "Technical data – Options" (→ 🗎 27)

1.8 Input voltage ranges

Depending on the model and power range, the drives can be connected directly to the following supply systems:

MOVITRAC® LTE-B+ size 1, 2 (input voltage 115 V):

115 V ±10%, 1-phase, 50 – 60 Hz ±5%

MOVITRAC® LTE-B+ size 1, 2, and 3 (200 – 240 V):

200 V – 240 V ±10%, 1-phase[1)]/3-phase, 50 – 60 Hz ±5%

MOVITRAC® LTE-B+ size 1, 2, and 3 (380 – 480 V):

380 V – 480 V ±10%, 3-phase, 50 – 60 Hz ±5%

Devices that are connected to a 3-phase supply system are designed for a maximum power grid imbalance of 3% between the phases. For supply systems with a power grid imbalance of more than 3% (typical in India and parts of the Asia-Pacific region including China), SEW-EURODRIVE recommends that you use input chokes.

1) A single-phase MOVITRAC® LTE-B+ can be connected to two phases of a three-phase system with 200 to 240 V.

1.9 Protection functions

- Output short circuit, phase-phase, phase-ground
- Output overcurrent
- Overload protection
- Overvoltage fault
- Undervoltage fault
- Overtemperature fault
- Undertemperature fault
- Line phase failure

22907653/EN – 06/2016

1.10 Conformity

All products meet the following international standards:

- CE marking according to the Low Voltage Directive
- IEC 664-1 Insulation coordination for electrical equipment within low-voltage systems
- UL 508C Power conversion equipment
- EN 61800-3 Variable-speed electrical drives – part 3
- EN 61000-6 / -2, -3, -4 Interference immunity / Interference emission (EMC)
- Housing protection classes according to NEMA 250, EN 55011:2007
- Classification of flammability according to UL 94
- RCM
- cUL
- EAC

1.11 Type designation

Example: MCLTE-1-B 0015-301-1-00		
Product name	MCLTE	MOVITRAC® LTE-B+
Version	B	Version status of the device series
Motor	1	Only single-phase motors
Recommended motor power	0015	0015 = 1.5 kW
Connection voltage	2	• 1 = 115 V • 2 = 200 – 240 V • 5 = 380 – 480 V
Interference suppression on the input	0	• 0 = Class 0 • A = Class A • B = Class B
Connection type	1	• 1 = 1-phase • 3 = 3-phase
Quadrants	1	• 1 = Single-quadrant operation without brake chopper • 4 = 4-quadrant operation with brake chopper
Design	00	• 00 = Standard IP20 housing • 30 = IP66/NEMA-4X housing without switch • 40 = IP66/NEMA-4X housing with switch
Country-specific variant	(60 Hz)	60 Hz = 60 Hz variant

22907653/EN – 06/2016

1.12 User interface

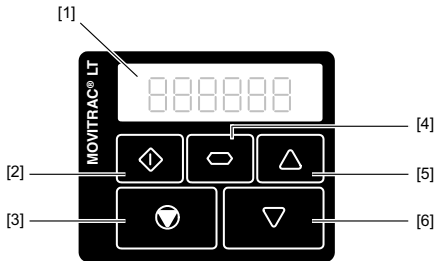
1.12.1 Keypad

Each MOVITRAC® LTE-B+ inverter is equipped with a keypad as standard, which allows the drive to be operated and set up without any further devices.

The keypad has five keys with the following functions:

Start (execute)	• Enables the motor. • Reverses the direction of rotation if bidirectional keypad mode is activated.
Stop/reset	• Stops the motor • Acknowledges an error
Navigate	• Shows real time information • Press and hold in order to access/exit the parameter edit mode • Saves parameter changes
Up	• Increases the speed in keypad mode. • Increases the parameter values in parameter edit mode.
Down	• Decreases the speed in keypad mode. • Decreases the parameter values in parameter edit mode.

If the parameters are set to the factory settings, the <Start> and <Stop> keys of the keypad are disabled. To enable the <Start>/<Stop> buttons on the keypad, set the parameter *P-12* for LTE-B+ or *P1-12* for LTP-B.



5737004811 *5737004811*

[1] Display
[2] Start
[3] Stop/reset
[4] Navigate
[5] Up
[6] Down

INFORMATION

To reset the device to the factory setting, press the <Up> [5] + <Down> [6] + <Stop> keys [3] simultaneously for 2 seconds. "P-deF" appears on the display. Press the stop key [3] again to confirm the change and to reset the inverter.

1.12.2 Display

A 6-digit, 7-segment display is integrated in each drive. It can be used to monitor drive functions and to set parameters.

22907653/EN – 06/2016

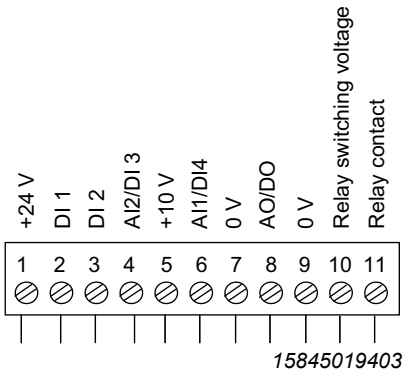
1.13 Overview of signal terminals

⚠ CAUTION

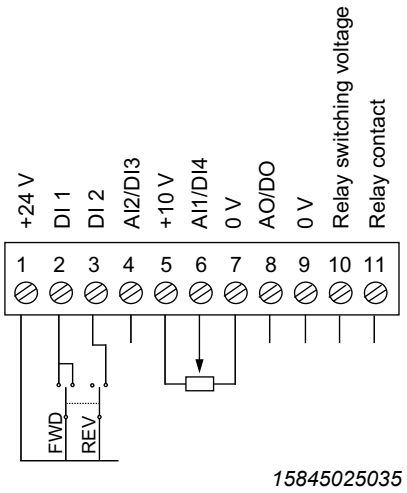
Applying voltages of more than 30 V to the signal terminals can damage the controller.

Possible damage to property.

- The voltage applied to the signal terminals must not exceed 30 V.



IP20 and IP66



IP66 with switches

1.13.1 The signal terminal block is equipped with the following signal terminals:

Terminal no.	Signal	Connection	Description
1	+24 V ref out	Output +24 V: Reference voltage	Reference voltage for activating DI1 – DI3 (max. 100 mA)
2	DI 1	Digital input 1	Positive logic "Logic 1" input voltage range: DC 8 – 30 V "Logic 0" input voltage range: DC 0 – 2 V
3	DI 2	Digital input 2	
4	AI/DI	Analog input 2 (12 bit) Digital input 3	0 – 10 V, 0 – 20 mA, 4 – 20 mA "Logic 1" input voltage range: DC 8 – 30 V
5	+10 V	Output +10 V: Reference voltage	10 V reference voltage for analog input (Pot. supply +, 10 mA max., 1 k Ω min.)
6	AI/DI	Analog input 1 (12 bit) Digital input 4	0 – 10 V, 0 – 20 mA, 4 – 20 mA "Logic 1" input voltage range: DC 8 – 30 V
7	0 V	0 V: Reference potential	0 V: Reference potential for analog input (potential supply)
8	AO/DO	Analog output (10 bit) Digital output	0 – 10 V, max. 20 mA analog 0/24 V, max. 20 mA digital
9	0 V	0 V: Reference potential	0 V: Reference potential for analog output
10	Relay switching voltage	Input relay switching voltage	NO contact (AC 250 V / DC 30 V at 5 A)
11	Relay contact	Relay contact	

If 0 V is present at terminal 7 or 9, all digital inputs and multi-functional inputs (binary operated) are compatible with the PLC requirement of IEC 61131.

The following switching threshold applies to all digital inputs and multi-functional inputs (binary operated):

Logic "1" input voltage range: 8 – 30 V

Logic "0" input voltage range: 0 – 4 V

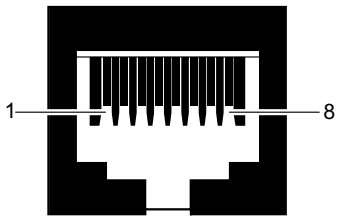
INFORMATION

Terminals 7 and 9 can be used as GND reference potential if the frequency inverter is controlled via PLC.

22907653/EN – 06/2016

1.14 Communication socket RJ45

Socket at unit



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[1] SBus-/CAN bus-
[2] SBus+/CAN bus+
[3] 0 V
[4] RS485- (engineering)
[5] RS485+ (engineering)
[6] +24 V (output voltage)
[7] RS485- (Modbus RTU)
[8] RS485+ (Modbus RTU)

22907653/EN – 06/2016

2 Technical data

2.1 Electromagnetic compatibility

With regard to interference emission, MOVITRAC® LTE-B+ meets the limit values of the standards EN 61800-3 and EN 55014 and can therefore be used both for industry and household applications (light industry).

To ensure the best possible electromagnetic compatibility, install the drives as described in the "MOVITRAC® LTE-B+" operating instructions.

Ensure proper ground connection for the drive system. Use shielded motor cables to comply with interference emission regulations.

The table below specifies the conditions for using MOVITRAC® LTE-B+ in drive applications:

<table>
<tr><th>Inverter type</th><th>Cat. C1 (class B)</th><th>Cat. C2 (class A)</th><th>Cat. C3</th></tr>
<tr><td>230 V, 1-phase
LTE-B xxxx 2B1-x-xx</td><td colspan="3">No additional filtering required
Use a shielded motor cable</td></tr>
<tr><td rowspan="2">230 V/400 V, 3-phase
LTE-B xxxx 2A3-x-xx
LTE-B xxxx 5A3-x-xx</td><td>Use an external filter of the type
NF LT 5B3 0xx</td><td colspan="2">No additional filtering required</td></tr>
<tr><td colspan="3">Use a shielded motor cable</td></tr>
</table>

An external filter and a shielded motor cable must be used to meet the requirements for inverters without internal filter:

<table>
<tr><th>Inverter type</th><th>Cat. C1 (class B)</th><th>Cat. C2 (class A)</th><th>Cat. C3</th></tr>
<tr><td>230 V, 3-phase
LTE-B xxxx 203-x-xx</td><td colspan="3">Use an external filter of the type NF LT 2B1 0xx
Use a shielded motor cable</td></tr>
</table>

22907653/EN – 06/2016

2.2 Information on ambient conditions

	Permitted conditions
Ambient temperature during operation	-10 to +50 °C for PWM frequency of 2 kHz (IP20) -10 to +40 °C for PWM frequency of 2 kHz (IP66 NEMA 4X / IP55 NEMA 12K)
Maximum derating depending on the ambient temperature	4%/1 °C to 55 °C for IP20 frequency inverters 4%/1 °C to 45 °C for IP66/IP55 frequency inverter
Ambient temperature during storage	-40 °C to +60 °C
Maximum installation altitude for nominal operation	1000 m
Derating above 1000 m	1%/100 m to max. 2000 m
Relative humidity	< 95% (condensation not permitted)
Degree of protection of control cabinet inverter	IP20 NEMA 1
Frequency inverter with high degree of protection	IP66 NEMA 4X

22907653/EN – 06/2016

2.3 Output power and current carrying capacity without EMC filter

Whether the MOVITRAC® LTE-B frequency inverters are used with or without filters depends on the regulations applicable in the various countries where the product is used.

- **Without filter: permitted in America, Asia, and Africa**.
- With filter: suited for use worldwide.

The specification "horsepower" (HP) is defined as follows.

- 200 – 240 V devices: NEC2002, table 430-150, 230 V
- 380 – 480 V devices: NEC2002, table 430-150, 460 V

2.3.1 1-phase system AC 115 V for 3-phase AC 230 V motors (voltage doubler)

MOVITRAC® LTE-B – EMC filter class 0					
IP20	Type	MC LTE B...	0004-101-1-00	0008-101-1-00	0011-101-4-00
	Part number		18261663	18261671	18261868
IP66/NEMA-4X housing without switches	Type	MC LTE B...	0004-101-1-30	0008-101-1-30	0011-101-4-30
	Part number		18262171	18262198	18262287
IP66/NEMA-4X housing with switches	Type	MC LTE B...	0004-101-1-40	0008-101-1-40	0011-101-4-40
	Part number		18262422	18262430	18262538
INPUT					
Line voltage V_{line}		V	1 × AC 110 − 115 ± 10%		
Line frequency f_{line}		Hz	50/60 ± 5%		
Line fuse		A	10	16 (15)[1)]	20
Nominal input current		A	6.7	12.5	16.8
OUTPUT					
Recommended motor power		kW	0.37	0.75	1.1
Output voltage V_{motor}		V	3 × 0 – 250		
Output current		A	2.3	4.3	5.8
Maximum output frequency		Hz	500		
Cross section of motor cable Cu 75C		mm^2	1.5		
		AWG	16		
Max. motor cable length	Shielded	m	50		100
	Unshielded		75		150
GENERAL INFORMATION					
Size		Size	1		2
Heat loss at nominal output power		W	11	22	33
Minimum braking resistance value		Ω	−		47

1) Recommended values for UL compliance

22907653/EN – 06/2016

2.4 Output power and current carrying capacity with EMC filter

Whether the MOVITRAC® LTE-B+ frequency inverter is used with or without a filter depends on the regulations applicable in the various countries where the product is used.

- **With filter: suited for use worldwide**.
- Without filter: permitted in America, Asia, and Africa.

The "Horsepower" (HP) data is specified as follows.

- 200 – 240 V devices: NEC2002, table 430-150, 230 V
- 380 – 480 V devices: NEC2002, table 430-150, 460 V

2.4.1 1-phase system AC 230 V for 3-phase AC 230 V motors

MOVITRAC® LTE-B+ – EMC filter class B								
IP20[1]	Type	MC LTE B...	0004-2B1-1-00	0008-2B1-1-00	0015-2B1-1-00	0015-2B1-4-00	0022-2B1-4-00	0040-2B1-4-00
	Part number		18261728	18261752	18261787	18261892	18261930	18262139
IP66/ NEMA-4X housing without switches	Type	MC LTE B...	0004-2B1-1-30	0008-2B1-1-30	0015-2B1-1-30	0015-2B1-4-30	0022-2B1-4-30	0040-2B1-4-30
	Part number		18262201	18262228	18262236	18262295	18262309	18262384
IP66/ NEMA-4X housing with switches	Type	MC LTE B...	0004-2B1-1-40	0008-2B1-1-40	0015-2B1-1-40	0015-2B1-4-40	0022-2B1-4-40	0040-2B1-4-40
	Part number		18262465	18262473	18262481	18262570	18262589	18262597
INPUT								
Line voltage V_{line}		V	1 × AC 200 – 240 ±10%					
Line frequency f_{line}		Hz	50/60 ±5%					
Input fuse		A	10	16	20		32 (35)[2]	40
Nominal input current		A	6.7	12.5	14.8		22.2	31.7
OUTPUT								
Recommended motor power		kW	0.37	0.75	1.5		2.2	4
Output voltage V_{motor}		V	0 – V_{line}					
Output current		A	2.3	4.3	7		10.5	16
Maximum output frequency		Hz	500					
Cross section of motor cable Cu 75C		mm^2	1.5					2.5
		AWG	16					18
Max. motor cable length	Shielded	m	50			100		
	Unshielded		75			150		
GENERAL INFORMATION								
Size		BG	1			2		3
Heat loss at nominal output power		W	11	22	45		66	120
Minimum braking resistance value		Ω	-			47		

1) Device for Europe, Australia, and New Zealand

2) Recommended values for UL compliance

22907653/EN – 06/2016

2.4.2 3-phase system AC 230 V for 3-phase AC 230 V motors

MOVITRAC® LTE-B+ – EMC filter class A					
IP20[1]	Type	MC LTE B...	0015-2A3-4-00	0022-2A3-4-00	0040-2A3-4-00
	Part number		18261884	18261922	18262058
IP66/NEMA-4X housing without switches	Type	MC LTE B...	0015-2A3-4-30	0022-2A3-4-30	0040-2A3-4-30
	Part number		18262317	18262325	18262392
IP66/NEMA-4X housing with switches	Type	MC LTE B...	0015-2A3-4-40	0022-2A3-4-40	0040-2A3-4-40
	Part number		18262600	18262619	18262635
INPUT					
Line voltage V_{line}		V	3 × AC 200 – 240 ±10%		
Line frequency f_{line}		Hz	50/60 ±5%		
Input fuse		A	16 (15)[2]	20	32 (35)
Nominal input current		A	9.2	13.7	20.7
OUTPUT					
Recommended motor power		kW	1.5	2.2	4.0
Output voltage V_{motor}		V	0 – V_{line}		
Output current		A	7	10.5	18
Maximum output frequency		Hz	500		
Cross section of motor cable Cu 75C		mm^2	1.5		2.5
		AWG	16		12
Max. motor cable length	Shielded	m	100		
	Unshielded		150		
GENERAL INFORMATION					
Size		BG	2		3
Heat loss at nominal output power		W	45	66	120
Minimum braking resistance value		Ω	47		

1) Device for Europe, Australia, and New Zealand

2) Recommended values for UL compliance

22907653/EN – 06/2016

2.4.3 3-phase system AC 400 V for 3-phase AC 400 V motors

Sizes 1 and 2

MOVITRAC® LTE-B+ – EMC filter class A							
IP20[1]	Type	MC LTE B...	0008-5A3-1-00	0015-5A3-1-00	0015-5A3-4-00	0022-5A3-4-00	0040-5A3-4-00
	Part number		18261809	18261825	18261957	18261973	18262007
IP66/NEMA-4X housing without switches	Type	MC LTE B...	0008-5A3-1-30	0015-5A3-1-30	0015-5A3-4-30	0022-5A3-4-30	0040-5A3-4-30
	Part number		18262244	18262252	18262333	18262341	18262368
IP66/NEMA-4X housing with switches	Type	MC LTE B...	0008-5A3-1-40	0015-5A3-1-40	0015-5A3-4-40	0022-5A3-4-40	0040-5A3-4-40
	Part number		18262449	18262457	18262546	18262554	18262562
INPUT							
Line voltage V_{line}		V	3 × AC 380 – 480 ±10%				
Line frequency f_{line}		Hz	50/60 ±5%				
Input fuse		A	5	10			16 (15)[2]
Nominal input current		A	2.9	5.4		7.6	12.4
OUTPUT							
Recommended motor power		kW	0.75	1.5		2.2	4
Output voltage V_{motor}		V	0 – V_{line}				
Output current		A	2.2	4.1		5.8	9.5
Maximum output frequency		Hz	500				
Cross section of motor cable Cu 75C		mm^2	1.5				
		AWG	16				
Max. motor cable length	Shielded	m	50		100		
	Unshielded		75		150		
GENERAL INFORMATION							
Size		BG	1		2		
Heat loss at nominal output power		W	22	45		66	120
Minimum braking resistance value		Ω	-		100		

1) Device for Europe, Australia, and New Zealand

2) Recommended values for UL compliance

22907653/EN – 06/2016

Size 3

MOVITRAC® LTE-B+ – EMC filter class A					
IP20[1]	Type	MC LTE B...	0055-5A3-4-00	0075-5A3-4-00	0110-5A3-4-00
	Part number		18262074	18262090	18262112
IP66/NEMA-4X housing without switches	Type	MC LTE B...	0055-5A3-4-30	0075-5A3-4-30	-
	Part number		18262406	18262414	-
IP66/NEMA-4X housing with switches	Type	MC LTE B...	0055-5A3-4-40	0075-5A3-4-40	-
	Part number		18262643	18262651	-
INPUT					
Line voltage V_{line}		V	3 × AC 380 – 480 ±10%		
Line frequency f_{line}		Hz	50/60 ±5%		
Input fuse		A	20	25	32 (35)[2]
Nominal input current		A	16.1	20.1	27.1
OUTPUT					
Recommended motor power		kW	5.5	7.5	11
Output voltage V_{motor}		V	0 – V_{line}		
Output current		A	14	18	24
Maximum output frequency		Hz	500		
Cross section of motor cable Cu 75C		mm^2	2.5		4
		AWG	12		10
Max. motor cable length	Shielded	m	100		
	Unshielded		150		
GENERAL INFORMATION					
Size		BG	3		
Heat loss at nominal output power		W	165	225	330
Minimum braking resistance value		Ω	47		

1) Device for Europe, Australia, and New Zealand

2) Recommended values for UL compliance

22907653/EN – 06/2016

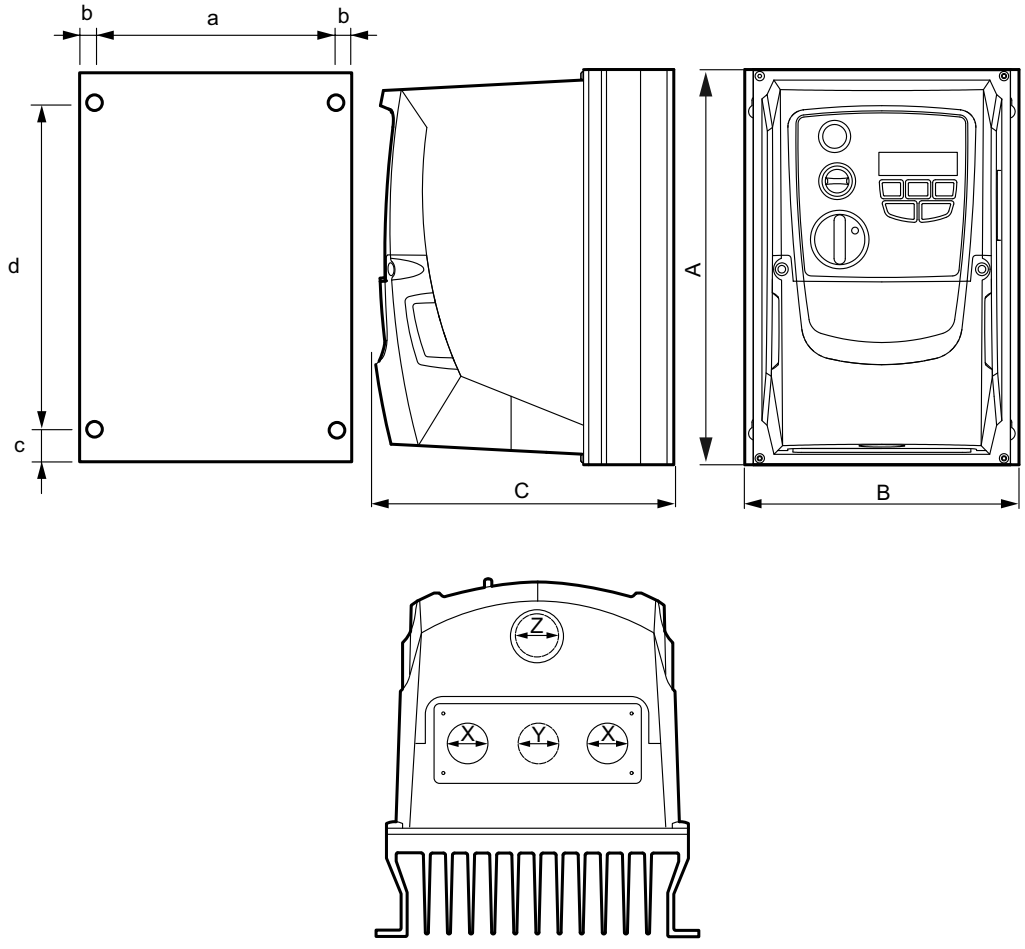
2.5 Housing variants and dimensions

MOVITRAC® LTE-B+ is available in two housing variants:

- Standard IP20 housing for use in control cabinets
- IP66/NEMA 4X

The IP66/NEMA-4X housing is protected against moisture and dust. This allows the inverter to be operated indoors under difficult conditions. In terms of electronics, the inverters are identical. They differ only in the dimensions of the housing and in the weight.

2.5.1 Dimensions of IP66/NEMA-4X housings (LTE xxx -30 and -40)



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22907653/EN – 06/2016

2.5.2 Dimension table

Dimensions		Size 1	Size 2	Size 3
Height (A)	mm	232	257	310
Width (B)	mm	161	188	210.5
Depth (C)	mm	179	186.5	252
Mass	kg	2.8	4.6	7.4
a	mm	148.5	176	197.5
b	mm	6.25	6	6.5
c	mm	25	28.5	33.4
d	mm	189	200	251.5
Tightening torque for power terminals	Nm	1	1	1
Tightening torque for control terminals	Nm	0.5	0.5	0.5
Recommended screw size		4 × M4	4 × M4	4 × M4

IP66 cable openings

Use suitable cable glands to achieve the corresponding IP/NEMA classification.

The pre-punched cable bushings can be broken out with suitable tools.

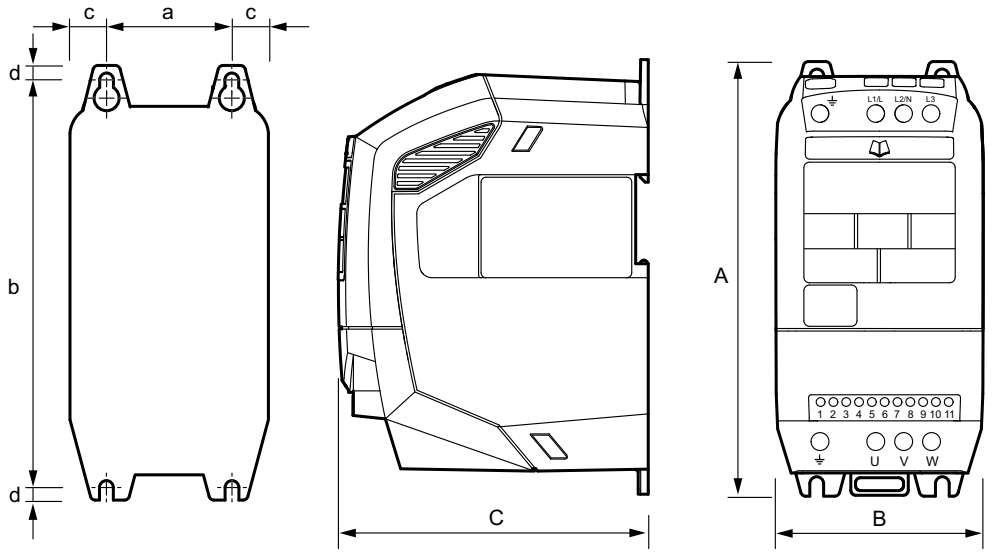
Dimensions		Size 1	Size 2	Size 3
X	mm	22	28.2	28.2
	PG/M[1)]	PG13.5/M20	PG21/M25	PG21/M25
Y[2)]	mm	22	22	22
	PG/M[1)]	PG13.5/M20	PG13.5/M20	PG13.5/M20
Z[2)]	mm	22	22	22
	PG/M[1)]	PG13.5/M20	PG13.5/M20	PG13.5/M20

1) The data above refers to plastic screw connections.

2) Cable bushings Y and Z are pre-punched

22907653/EN – 06/2016

2.5.3 Dimensions of the IP20 housing



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Dimensions	Unit	Size 1	Size 2	Size 3
Height (A)	mm	174	220	261
Width (B)	mm	82	109	131
Depth (C)	mm	122.6	150	178
Mass	kg	1.1	2	4.5
a	mm	50	63	80
b	mm	162	209.0	247
c	mm	16	23	25.5
d	mm	5	5.25	7.25
Tightening torques for power terminals	Nm	1	1	1
Tightening torques for control terminals	Nm	0.5	0.5	0.5
Recommended screws		4 × M4	4 × M4	4 × M4

2.5.4 Mounting position

The frequency inverter may only be installed vertically.

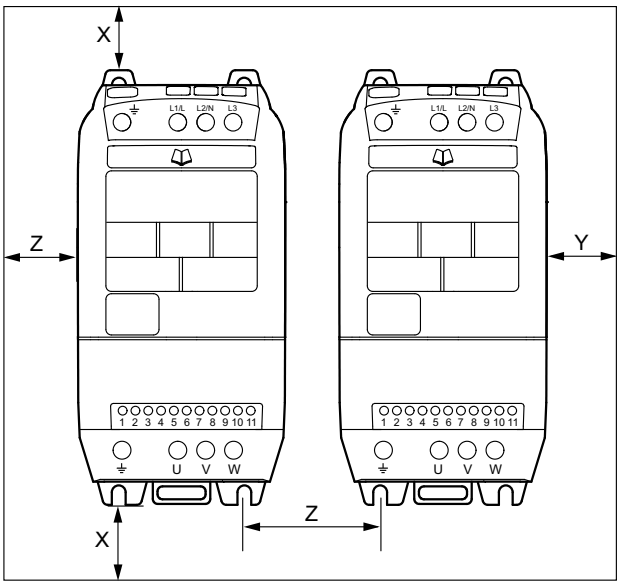
22907653/EN – 06/2016

2.6 IP20 housing: assembly and installation space

For applications that require a higher IP degree of protection than IP20, the frequency inverter must be installed in a control cabinet. Observe the following requirements:

- The control cabinet must be made of a heat conductive material unless it has forced air cooling.
- When using a control cabinet with ventilation openings, the openings must be provided above and below the frequency inverter to allow for unobstructed circulation of air. The air must be supplied below the frequency inverter and dissipated above it.
- If the frequency inverter is operated in external environments with particles of dirt (such as dust), ventilation openings either have to be equipped with a suitable particle filter or forced air cooling has to be used. The filter has to be serviced and cleaned.
- In environments with a high level of humidity, salt or chemicals, a suitable enclosed control cabinet (without ventilation openings) must be used.
- The IP20 frequency inverter can be assembled directly next to one another without clearance.

Minimum clearances during installation



11938462859

Size	X	Y	Z	Air flow rate
	mm	mm	mm	m³/h
1	50	50	33	11
2	75	50	47	11
3	100	50	52	26

22907653/EN – 06/2016

3 Technical data of options and variants

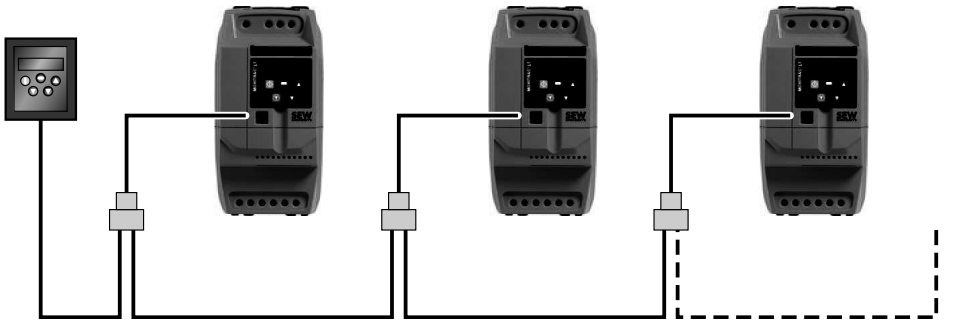
3.1 Remote keypad LT BG-C

The MOVITRAC® LTE-B+ basic device has an integrated keypad. Some applications require a remote keypad of the inverter. The keypad option comes equipped with a self-adhesive gasket and a 3 m cable, which is plugged into the RJ45 socket of the MOVITRAC® LTE-B+. This option is supplied with 24 V via the RJ45 cable of the inverter. The maximum cable length between the keypad and inverter is 25 m with shielded cables.

Type	Part number
LT BG-C	18241522



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One keypad can be used to control up to 63 inverters in one network. The length of all the cables in the network must not exceed 25 m for unshielded cables and 100 m for shielded cables.

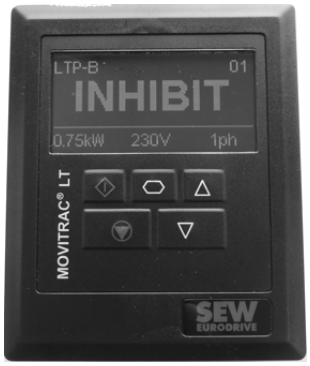
A maximum of two keypads may be integrated into an existing network.

3.2 LT BG OLED A remote keypad

A full text keypad is offered as an additional option.

Type	Part number
LT BG OLED A	28205731

22907653/EN – 06/2016



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22907653/EN – 06/2016

3.3 Network connection packages

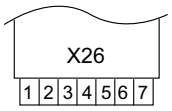
For a network connection between MOVITRAC® LTE-B+ and a gateway in a UOx housing, network packages with respective components are available.

3.3.1 Basic package (cable set A)

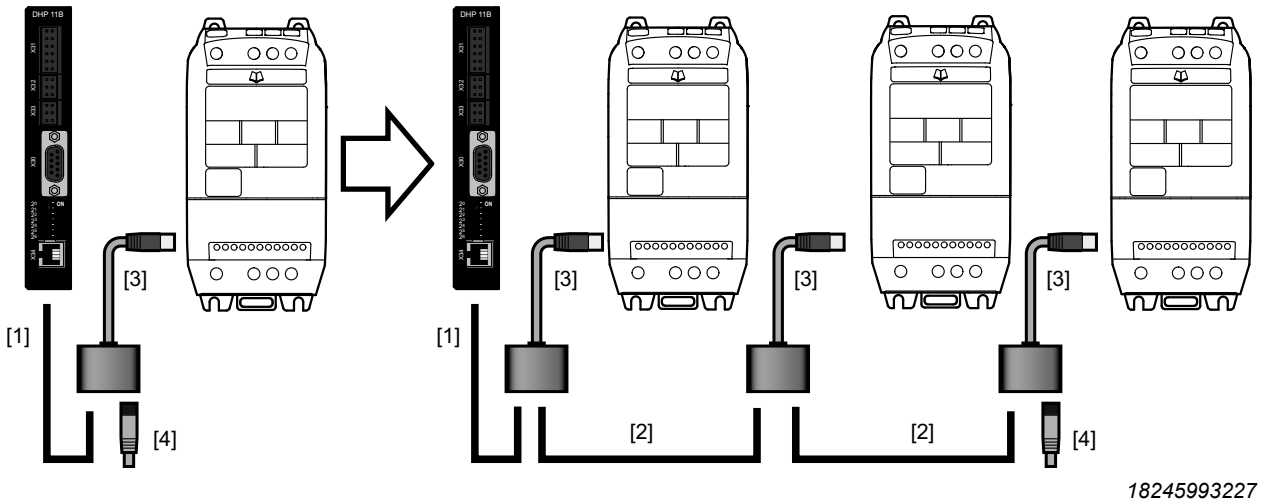
The basic package includes the basic configuration.

Type	Quantity	Description	Length	Part number
OP LT 005 A2	1	RJ45 cable with open end	0.5 m	28202554
	1	Cable splitter		
	1	Terminating connector		

Connect the RJ45 cable with the 7-pin connector of the MOVI-PLC® or the gateway.

Preview Single device	Description	Terminal		Connection to the RJ45 connector
 2108496651	X26 connector: CAN 1 and voltage supply (plug-in terminal)	X26:1	CAN 1H	SBus +
		X26:2	CAN 1L	SBus –
		X26:3	DGND	0 V
		X26:4	Reserved	–
		X26:5	Reserved	–
		X26:6	DGND	–
		X26:7	DC 24 V	–

The terminating connector must be plugged into the last inverter in the network.



18245993227

[1] RJ45 cable with open end
[2] RJ45 cable
[3] Cable splitter
[4] Terminating connector

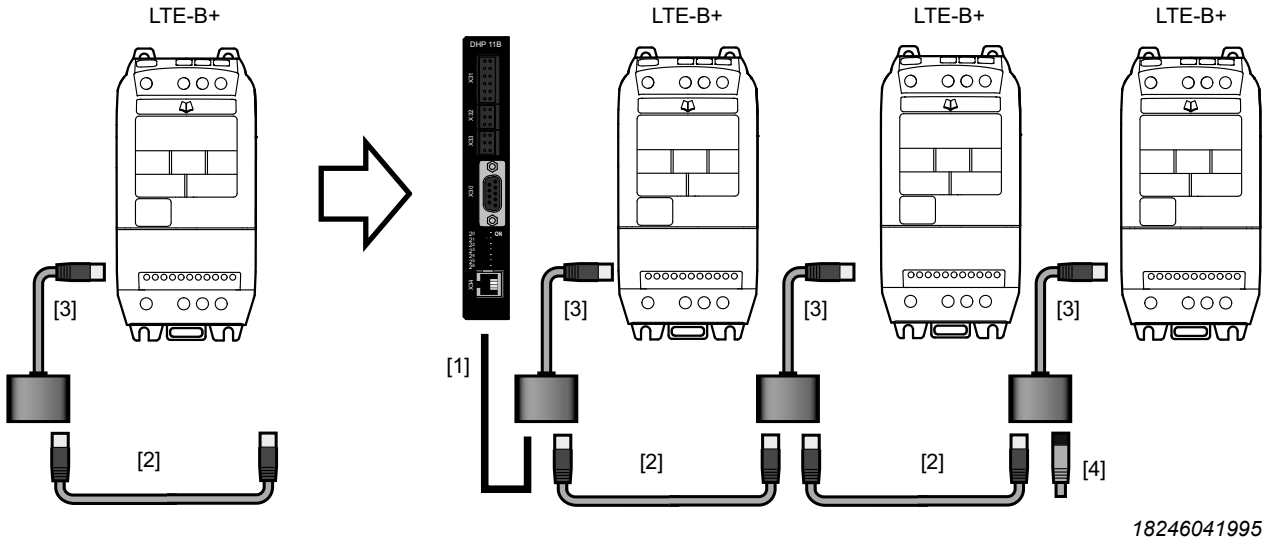
3.3.2 Extension package (cable set B)

The extension package is used in addition to the basic package (A) to connect more inverters in the network.

Type	Quantity	Description	Length	Part number
LT OP 005 B2	1	RJ45 to RJ45 cable	0.5 m	28202546
	1	Cable splitter		
LT OP 010 B2	1	RJ45 to RJ45 cable	1 m	28202562
	1	Cable splitter		

Example

The following example shows the operation of three inverters at one gateway (controller). This requires cable set A and two times the extension package (cable set B).



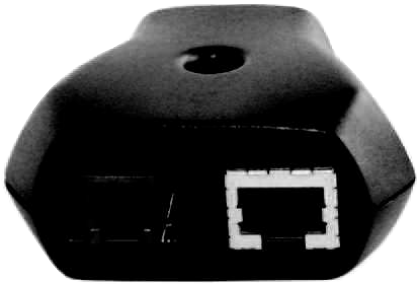
[1] RJ45 cable with open end
[2] RJ45 cable
[3] Cable splitter
[4] Terminating connector

22907653/EN – 06/2016

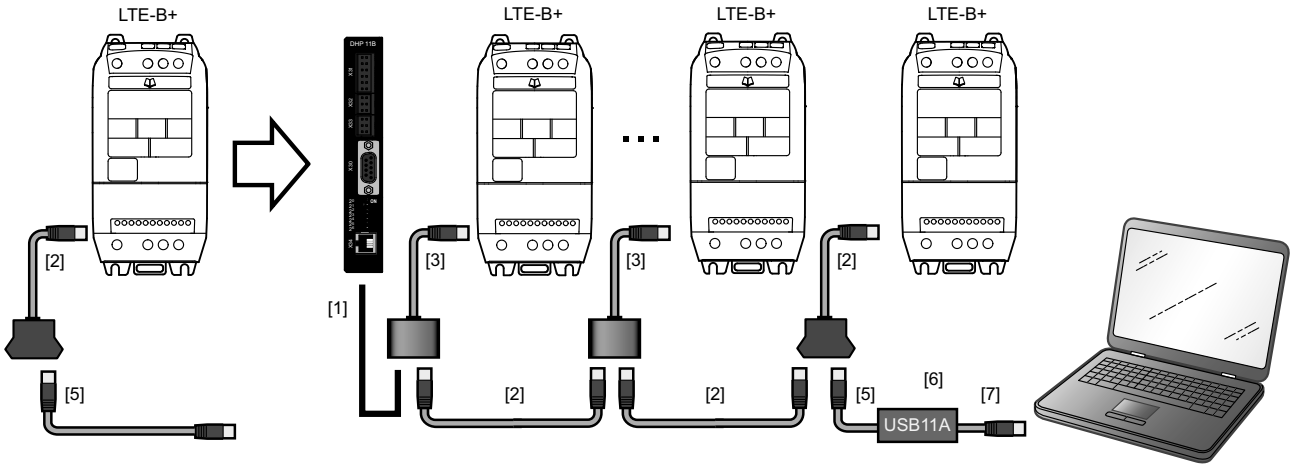
3.3.3 PC engineering package (cable set C)

The PC engineering package (C) contains all components for the connection to a network with MOVITRAC® LTE-B+, LTP-B, LTP-A, or MOVIFIT®*basic* via RS485.

Type	Quantity	Description	Part number
LT OP 003 C	1	RJ adapter (RJ45, RJ45, RJ10)	18243681
	1	1 x RJ45 to RJ45 cable (LTE-B+, LTP-B)	
	1	1 x RJ45 to RJ11 cable (LTP-A, MOVIFIT®*basic*)	



3805148171



18246119819

[1] RJ45 cable with open end
[2] RJ45 cable
[3] Cable splitter
[4] Terminating connector
[5] RJ11 cable
[6] USB11A
[7] Cable USB A-B

In an SBus network, the terminating connector or RJ adapter is equipped with a terminating resistor. If you use the PC engineering package (C) with the basic package (A), you have to replace the terminating connector with the RJ adapter.

Connect the RJ10 connector (4-pin) to USB11A.

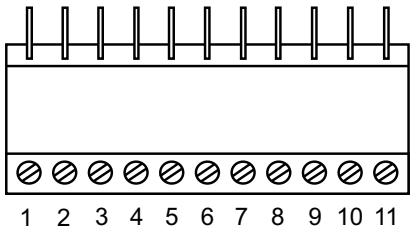
3.4 Second relay output

Type	Part number
OBLT2ROUTB	18223168

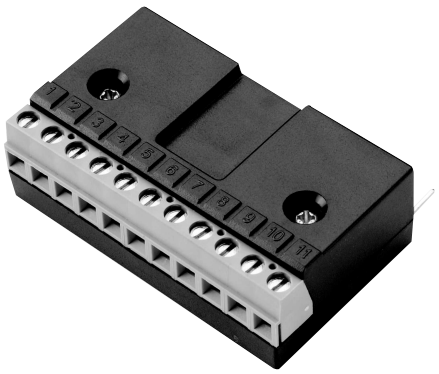
If 2 relay outputs are required, use this option card. The second relay output is suitable for applications where the analog output of the MOVITRAC® LTE-B is to be converted into a relay output.

The functions of the relay can be programmed in the frequency inverter. Possible functions:

- Frequency inverter is enabled (digital)
- Frequency inverter is ready for operation (digital)
- Motor at setpoint speed (digital)
- Frequency inverter is in fault status (digital)
- Motor speed ≥ limit value
- Motor current ≥ limit value
- Motor speed < limit value
- Motor current < limit value



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Terminal no.	Signal	Connection	Description
1	+24 V	Output +24 V: Reference voltage	Reference voltage for activating DI 1 to DI 3 (max. 100 mA)
2	DI 1	Digital input 1	Positive logic "Logic 1" input voltage range: DC 8 – 30 V "Logic 0" input voltage range: DC 0 – 2 V Compatible with PLC requirement if 0 V is present.
3	DI 2	Digital input 2	
4	DI 3	Digital input 3 / thermistor contact	
5	+10 V	Output +10 V: Reference voltage	10 V: Reference voltage for analog input (potential supply +, 10 mA max., 1 kΩ min.)
6	AI/DI	Analog input (12 bit) Digital input 4	0 – 10 V, 0 – 20 mA, 4 – 20 mA "Logic 1" input voltage range: DC 8 – 30 V
7	0 V	0 V: Reference potential	0 V: Reference potential for analog input (potential shift -)

22907653/EN – 06/2016

Terminal no.	Signal	Connection	Description
8	Relay contact 2	Relay contact	NO contact (AC 250 V / DC 30 V at 5 A)
9	Relay reference potential 2	Relay reference potential	
10	Relay contact 1	Relay contact	NO contact (AC 250 V / DC 30 V at 5 A)
11	Relay reference potential 1	Relay reference potential	

INFORMATION

In case of IP66 devices, the option card must be slightly bent downwards to enable the front cover to close. This does not impair the function of the option card.

3.4.1 Technical data

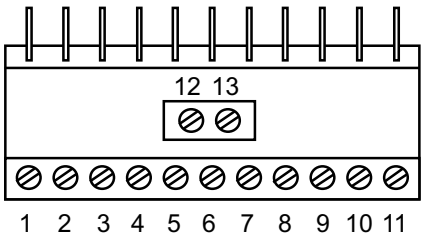
Maximum relay switching voltage	AC 250 V / DC 220 V
Maximum relay switching current	1 A
Conformity	IP00, UL94V-0
Ambient temperature	-10 °C to +50 °C
Dimensions	56 × 24 (without pins) × 14 mm

22907653/EN – 06/2016

3.5 Two signal relays

Type	Part number
OB LT HVAC-B	18218180

HVAC-B option card is suitable for applications that require 2 status messages. For example, the status message "frequency inverter in fault status" can be extended by "frequency inverter enabled".



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Terminal no.	Signal	Connection	Description
1	+24 V	Output +24 V: Reference voltage	Reference voltage for activating DI 1 to DI 3 (max. 100 mA)
2	DI 1	Digital input 1	Positive logic
3	DI 2	Digital input 2	"Logic 1" input voltage range: DC 8 – 30 V
4	DI 3	Digital input 3 / thermistor contact	"Logic 0" input voltage range: DC 0 – 2 V Compatible with PLC requirement if 0 V is present.
5	+10 V	Output +10 V: Reference voltage	10 V: Reference voltage for analog input (potential supply +, 10 mA max., 1 kΩ min.)
6	AI/DI	Analog input (12 bit) Digital input 4	0 – 10 V, 0 – 20 mA, 4 – 20 mA, "Logic 1" input voltage range: DC 8 – 30 V
7	0 V	0 V: Reference potential	0 V: Reference potential for analog input (potential shift -)
8	AO/DO	Analog output (10 bit) Digital output	analog: 0 – 10 V, 20 mA digital: 24 V/20 mA
9	0 V	0 V: Reference potential	0 V: Reference potential for analog output
10	Relay contact 1	Relay contact	NO contact (AC 250 V / DC 30 V at 5 A)
11	Reference potential 1	Relay reference potential	Device status "drive shutdown"

22907653/EN – 06/2016

Terminal no.	Signal	Connection	Description
12	Relay contact 2	Relay contact	NO contact (AC 250 V / DC 30 V at 5 A)
13	Reference potential 2	Relay reference potential	Device status "drive enabled"

INFORMATION

In case of IP66 devices, the option card must be slightly bent downwards to enable the front cover to close. This does not impair the function of the option card.

3.5.1 Technical data

Maximum relay switching voltage	AC 250 V / DC 220 V
Maximum relay switching current	1 A
Conformity	IP00, UL94V-0
Ambient temperature	-10 °C to +50 °C
Dimensions	56 × 24 (without pins) × 14 mm

22907653/EN – 06/2016

3.6 Converter card

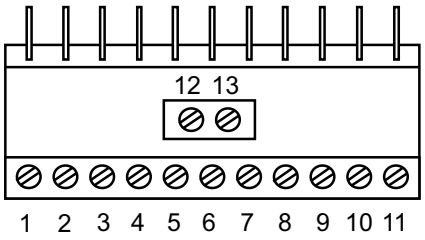
Type	Part number	Description
OB LT VCON A	18217672	110/24 V converter
OB LT VCON B	18221947	230/24 V converter

Via the converter card, the digital inputs of the frequency inverter can also be controlled directly by a 110 V or 240 V control supply, without an interconnected relay.

INFORMATION

The existing analog input can continue to be used when the analog signal is connected at terminal 6. This has no influence on the other inputs/outputs of the frequency inverter.

The digital input terminals are isolated via optocoupler.



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Terminal no.	Signal	Connection	Description
1	Neutral	Neutral	Do not connect to 0 V.
2	DI 1	Digital input 1	110/24 V converter: AC 100 – 120 V, 68 kΩ impedance 230/24 V converter: AC 200 – 240 V, 68 kΩ impedance
3	DI 2	Digital input 2	
4	DI 3	Digital input 3	
5	+10 V	Output +10 V: Reference voltage	10 V: Reference voltage for analog input (potential supply +, 10 mA max., 1 kΩ min.)
6	AI/DI	Analog input (12 bit) Digital input 4	0 – 10 V, 0 – 20 mA, 4 – 20 mA "Logic 1" input voltage range: DC 8 – 30 V
7	0 V	0 V: Reference potential	0 V: Reference potential for analog input (potential shift -)
8	AO/DO	Analog output (10 bit) Digital output	analog: 0 – 10 V, 20 mA digital: 24 V/20 mA
9	0 V	0 V: Reference potential	0 V reference potential for analog output

22907653/EN – 06/2016

Terminal no.	Signal	Connection	Description
10	Relay contact 1	Relay contact	NO contact (AC 250 V / DC 30 V at 5 A)
11	Reference potential 1	Relay reference potential	
12	Neutral	Neutral	Do not connect to 0 V.
13	DI 4	Digital input 4	AC 80 – 250 V, 68 kΩ impedance

INFORMATION

In case of IP66 devices, the option card must be slightly bent downwards to enable the front cover to close. This does not impair the function of the option card.

3.6.1 Technical data

Maximum relay switching voltage	AC 250 V / DC 220 V
Maximum relay switching current	1 A
Conformity	IP00, UL94V-0
Ambient temperature	-10 °C to +50 °C
Dimensions	56 × 24 (without pins) × 14 mm

22907653/EN – 06/2016

3.7 OB LT LOCMO control board

The local control panel is used to realize quick and easy manual operation. It is equipped with 3 DIP switches and a potentiometer.

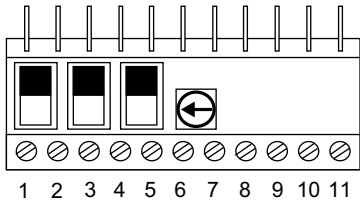
Designation	Component	Function
SW1	Dip switch	Control of digital input 1
SW2	Dip switch	Control of digital input 2
SW3	Dip switch	Control of digital input 3
POT1	Potentiometer	Setting of the reference speed

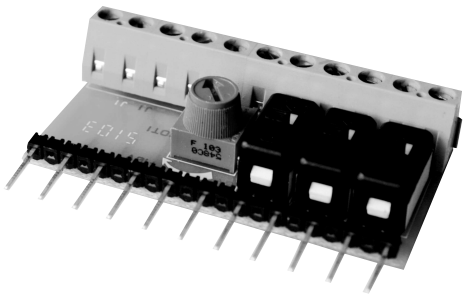
Type	Part number
OB LT LOCMO	18205607

.

INFORMATION

This option is for test purposes only. For application in the field, a permanently-wired connection is required for controlling the drive.





5740830859

INFORMATION

The terminal connections on the control board correspond to those of the MOVITRAC® LTE-B.

3.7.1 Technical data

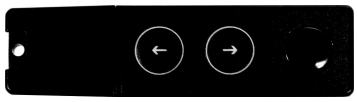
Degree of protection		IP00
Switch position		Up → open → 0 V → logical "0" Down → closed → 24 V → logical "1"
Potentiometer position		Left stop = 0 V Right stop = 10 V
Ambient temperature		-10 to +50 °C
Dimensions	mm	56 × 33 (without pins) × 16

22907653/EN – 06/2016

3.8 Parameter module

The parameter module is exclusively designed for operation in the RJ45 port of the frequency inverter.

Type	Part number
LT BP-C	18241549



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- Functionality:
  - Saves data from the frequency inverter to the parameter module.
  - Can save data simultaneously from both frequency inverter types to the parameter module.
  - Integrated parameter lock. Prevents overwriting of saved parameters if activated.
  - Loads data back from the parameter module to the frequency inverter.
  - Bluetooth® interface for communication between engineering software LT Shell and MOVITRAC® LT or directly with the parameter module.

3.8.1 Technical data

Degree of protection	IP20, NEMA 1
Ambient temperature during operation	-10 °C – +50 °C
Range	< 10 m, depending on ambient conditions
Data transmission	Bluetooth®

3.9 Fieldbus gateways

The fieldbus gateways convert standard fieldbuses to the SBus of SEW-EURODRIVE. This allows up to eight inverters to be triggered using one gateway.

The controller (PLC or PC) and the MOVITRAC® LTE-B+ frequency inverter exchange process data, such as control words or speed, using the fieldbus.

In principle, you can also connect and operate other SEW-EURODRIVE devices (e.g. MOVIDRIVE® drive inverters) via the SBus.

3.9.1 Available gateways

For fieldbus connection, gateways are available for the following bus systems:

Bus	Separate housing
PROFIBUS	DFP21B/UOH11B
EtherCAT®	DFE24/UOH11B
DeviceNet™	DFD11/UOH11B
PROFINET	DFE32/UOH11B
EtherNet/IP™	DFE33B/UOH11B
Interbus	UFI11A

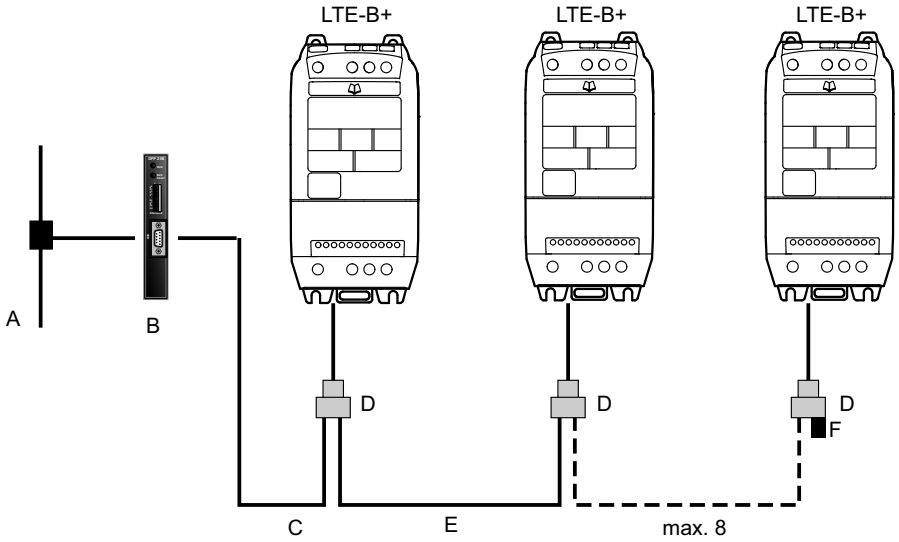
3.9.2 Available controllers

Type	Fieldbus interfaces
DHE21B/41B in UOH11B	• Ethernet TCP/IP • UDP
DHF21B/41B in UOH21B	• Ethernet TCP/IP • UDP • PROFIBUS DP-V1 • DeviceNet™
DHR21B/41B in UOH21B	• Ethernet TCP/IP • UDP • PROFINET • EtherNet/IP™ • Modbus TCP/IP

22907653/EN – 06/2016

3.9.3 Functional principle

The fieldbus gateways have standardized interfaces. Connect lower-level MOVITRAC® LTE-B+ devices to the fieldbus gateway via the SBus device system bus.



18246264587

Key		Additional information
A	Bus connection	–
B	Gateway	See chapter "Available gateways" (→ 🗎 40)
C	Pre-fabricated cable	See chapter "Network packages" (→ 🗎 29)
D	Splitter	
E	Pre-fabricated cable	
F	Terminating resistor	

22907653/EN – 06/2016

4 Technical data – system accessories

4.1 Braking resistors

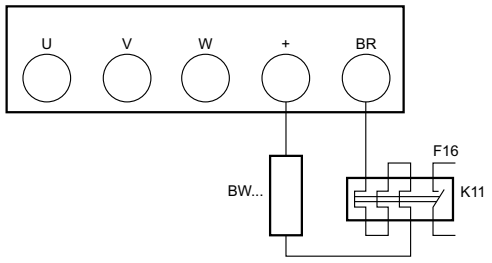
4.1.1 Braking resistor circuit

MOVITRAC® LTE-B+ size 2 and 3 come equipped with a braking transistor. They can be used together with an external braking resistor to convert braking energy generated by the motor into thermal energy. This brake circuit is usually necessary for applications with a short deceleration ramp or high mass moment of inertia.

SEW-EURODRIVE recommends additionally protecting the wire and grid resistors against overload using a bimetallic relay as shown in the figure below.

The bimetallic relay is not needed for braking resistors BW LT 050 002, for SEW-EURODRIVE flatpack resistors, and for all other overload-protected braking resistors.

The following figure shows the wiring diagram for the braking resistor.



9007204991825419

K11: Line contactor of the inverter

4.1.2 Braking resistor minimum values

MOVITRAC® LTE-B	1.5 kW	2.2 kW	4.0 kW	5.5 kW	7.5 kW	11 kW
115 / 230 V	47 Ω	47 Ω	47 Ω	-	-	-
400 V	100 Ω	100 Ω	100 Ω	47 Ω	47 Ω	47 Ω

INFORMATION

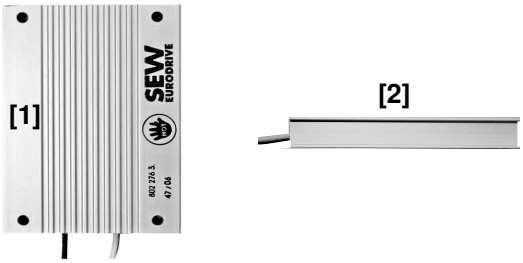
To avoid damaging the device, the respective values must not fall below the limit values specified above.

22907653/EN – 06/2016

4.1.3 Flat-type resistors

- Protection against contact (IP54)
- With internal thermal overload protection.
- With a touch guard on the mounting rail.

INFORMATION: The current-carrying capacity specified in the assignment tables applies to a horizontal mounting position [2]. Values are reduced by 10% for a vertical mounting position [1].



5737920139 *5737920139*

Braking resistor type	BW027-003	BW027-005	BW047-003	BW047-005	BW072-003	BW072-005	BW100-005
Part number	8269491	8269505	8262659	8262683	8260583	8260605	8262691
100% cdf 50% cdf 25% cdf 12% cdf 6% cdf	230 W 310 W 410 W 550 W 980 W	450 W 610 W 840 W 1200 W 2360 W	250 W 330 W 430 W 580 W 1050 W	450 W 610 W 840 W 1200 W 2360 W	230 W 310 W 420 W 580 W 1000 W	450 W 610 W 840 W 1200 W 2360 W	450 W 610 W 840 W 1200 W 2360 W
Resistance value R_{BW}	27 Ω ±10%		47 Ω ±10%		72 Ω ±10%		100 Ω ±10%
Tripping current I_F	1.0 A	1.4 A	0.8 A	1.2 A	0.6 A	1.0 A	0.8 A
Ambient temperature	-20 °C to +45 °C						
Assignment LTE-B+ 230 V devices	040		0015(4Q) – 0022		0015 – 0040		–
Assignment LTE-B+ 400 V devices	–		–		–		0015 – 0022

4.1.4 Wire resistors

Resistor type	BW027-006	BW027-012	BW147	BW247	BW100-006
Part number	8224226	8224234	8207135	8207143	8217017
100% cdf 50% cdf 25% cdf 12% cdf 6% cdf	0.6 kW 1.2 kW 2.0 kW 3.5 kW 6.0 kW	1.2 kW 2.3 kW 5.0 kW 7.5 kW 8.5 kW	1.2 kW 2.2 kW 3.8 kW 7.2 kW 11 kW	2.0 kW 3.8 kW 6.4 kW 12 kW 19 kW	0.6 kW 1.1 kW 1.9 kW 3.6 kW 5.7 kW
Resistance value R_{BW}	27 Ω ±10%		47 Ω ±10%		100 Ω ±10%
Tripping current I_F	4.7 A_{RMS}	6.7 A_{RMS}	5 A_{RMS}	6.5 A_{RMS}	2.4 A_{RMS}
Connections	Ceramic terminals 2.5 mm^2 (AWG12)				
Tightening torque	0.5 Nm				

4.1.5 Recommendation for wire resistors

Resistor type	BW027-003	BW027-005	BW027-006	BW027-012	BW0047-003	BW0047-005
100% cdf	230 W	450 W	0.6 kW	1.2 kW	250 W	450 W
50% cdf	310 W	610 W	1.1 kW	2.1 kW	330 W	610 W
25% cdf	410 W	840 W	1.9 kW	3.8 kW	430 W	840 W
12% cdf	550 W	1200 W	3.6 kW	7.2 kW	580 W	1200 W
6% cdf	980 W	2360 W	5.7 kW	8.7 kW	1050 W	2360 W
Resistance value R_{BW}	27 Ω		27 Ω		47 Ω	
Design	Flat design, IP55		Wire resistor on ceramic core		Flat design, IP55	
For LTE-B+ 230 V (recommendation)	0040				0015 – 0022	
For LTE-B+ 400 V (recommendation)	–					

Resistor type	BW147	BW247	BW347	BW110-005	BW110-006	BW168	BW268
100% cdf	1.2 kW	2.0 kW	4.0 kW	0.45 kW	0.6 kW	0.8 kW	1.2 kW
50% cdf	2.2 kW	3.6 kW	7.2 kW	0.6 kW	1.1 kW	1.4 kW	2.2 kW
25% cdf	3.8 kW	6.4 kW	12.8 kW	0.83 kW	1.9 kW	2.6 kW	3.8 kW
12% cdf	7.2 kW	12 kW	20 kW	1.11 kW	3.6 kW	4.8 kW	7.2 kW
6% cdf	11 kW	19 kW	20 kW	2 kW	5.7 kW	7.6 kW	11 kW
Resistance value R_{BW}	47 Ω			100 Ω		68 Ω	
Design	Wire resistor on ceramic core			Flat design	Wire resistor on ceramic core		
For LTE-B+ 230 V (recommendation)	0015 – 0040						
For LTE-B+ 400 V (recommendation)				0015 – 0022	0015 – 0040	0055 – 0075	0055 – 0110

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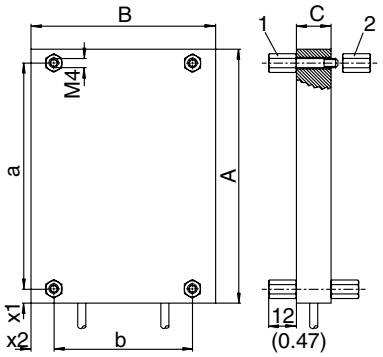
4.1.6 Dimensions of BW braking resistors

Flat design

The connecting lead is 500 mm long.

Scope of delivery:

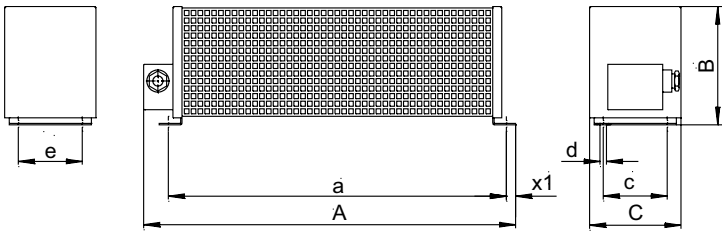
- 4 × M4 threaded holes, type 1
- 4 × M4 threaded holes, type 2



5737927563

Type	Main dimensions in mm			Fastening parts mm				Weight
	A	B	C	a	b	x1	x2	kg
BW027-003 BW047-003 BW072-003	110	80	15	98	60	6	10	0.3
BW027-005 BW047-005 BW072-005 BW100-005	216	80	15	204	60	6	10	0.6

Wire resistors



5737930251

Type	Main dimensions in mm			Fastening parts mm				Weight
	A	B	C	a	c/e	x1	d	kg
BW027-006	486	120	92	426	64	10	5.8	2.2
BW027-012	486	120	185	426	150	10	5.8	4.3
BW100-006	486	120	92	426	64	10	5.8	2.2
BW147	465	120	185	426	150	10	5.8	4.3
BW247	665	120	185	626	150	10	5.8	6.1

22907653/EN – 06/2016

4.2 Line chokes

Using line chokes is optional in the following instances:

- Reducing harmonic distortions in or to the supply system
- Supporting overvoltage protection
- Smoothing the line current to reduce harmonics
- Protection in the event of distorted line voltage
- Protecting the power input circuits of the MOVITRAC® LTE-B+ against overvoltage peaks
- Limiting the charging current when several inverters are connected together in parallel on the input end with shared line contactors (nominal current of line choke = total of inverter currents)



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22907653/EN – 06/2016

4.2.1 Technical data

IP20, 1 x 230 V, 3 x 230 V, 6 – 36 A

Type		ND LT 010 180 21-20	ND LT 025 110 21-20	ND LT 006 480 53-20	ND LT 010 290 53-20	ND LT 036 081 53-20
Part number		28233417	18201652	18201660	18201679	18201687
Nominal voltage (according to EN 50160)	V_N	1 x AC 230, 50/60 Hz		3 x AC 230 – 500, 50/60 Hz		
Rated current	I_N	16 A	25 A	6 A	10 A	36 A
Inductance	L_N	1.8 mH	1.1 mH	4.8 mH	2.9 mH	0.81 mH
Ambient temperature		-25 – +45 °C				
IP protection		IP20 (EN 60529)				
Mass	m	1.1 kg	1.8 kg	1.3 kg	2.5 kg	7.2 kg
Assignment for AC 230 V		0004 – 0015	0022	0004/0008	0015	0022/0040
Assignment for AC 400 V		–	–	0008/0015	0022	0040 – 0110
UL/cUL approval		Yes	Yes	Yes	Yes	Yes

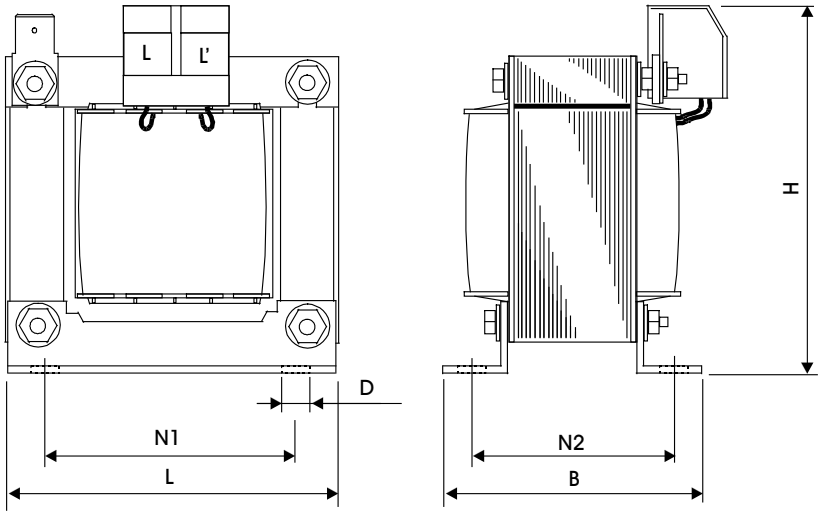
IP66, 1 x 230 V, 3 x 230 V – 600 V, 6 – 25 A

Type		ND LT 016 183 21-66	ND LT 025 117 21-66	ND LT 006 480 63-66	ND LT 010 386 63-66	ND LT 020 204 63-66
Part number		18217680	18217699	28233409	18217710	28233425
Nominal voltage (according to EN 50160)	V_N	1 x AC 230, 50/60 Hz		3 x AC 230 – 600, 50/60 Hz		
Rated current	I_N	16 A	25 A	6 A	10 A	18 A
Inductance	L_N	1.83 mH	1.17 mH	4.8 mH	3.86 mH	2.04 mH
Ambient temperature		-25 – +40 °C				
IP protection		IP66 (EN 60529)				
Mass	m	1 kg	1.3 kg	1.6 kg	3.5 kg	7 kg
Assignment for AC 230 V		0004 – 0015	0022	0004/0008	0015	0022/0040
Assignment for AC 400 V		–	–	0008/0015	0022	0040 – 0110
UL/cUL approval		Yes	Yes	Yes	Yes	Yes

22907653/EN – 06/2016

4.2.2 Dimensions

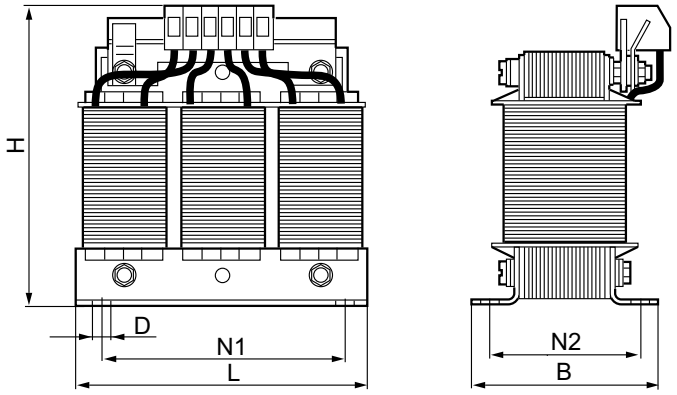
IP20, 1 × 230 V, 10/25 A



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Type	L	B	H	N1	N2	D
	mm	mm	mm	mm	mm	mm
ND LT 010 180 21-20	78	78	80	56	49	4.8
ND LT 025 110 21-20	85	76	158	100	55	5

IP20, 3 × 230 – 500 V, 6/10 A

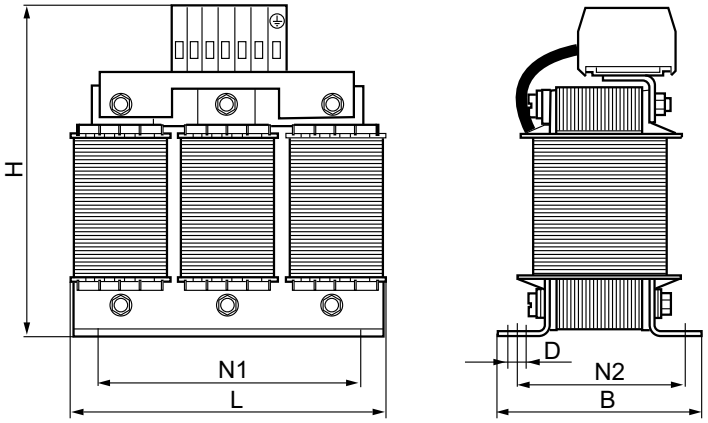


9453581067

Type	L	B	H	N1	N2	D
	mm	mm	mm	mm	mm	mm
ND LT 006 480 53-20	95	56	107	56	43	5 x 9
ND LT 010 290 53-20	125	71	127	100	55	5 x 8

22907653/EN – 06/2016

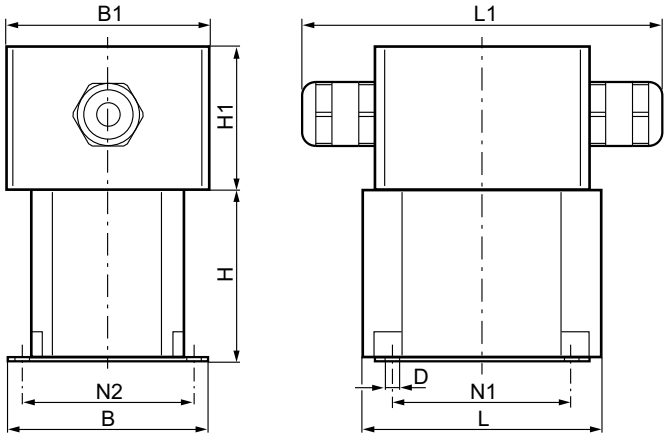
IP20, 3 × 230 – 500 V, 36 – 90 A



9453583371

Type	L	B	H	N1	N2	D
	mm	mm	mm	mm	mm	mm
ND LT 036 081 53-20	190	82	205	170	58	8 x 12

IP66, 1 x 230 V, 3 x 230 – 600 V, 6 – 25 A



9453666955

Type	L	B	H	N1	N2	D
	mm	mm	mm	mm	mm	mm
ND LT 016 183 21-66	82	70	70	70	58	6
ND LT 025 117 21-66	90	84	75	84	72	6
ND LT 006 480 63-66	115	74	88	80	60	5.5x7
ND LT 010 386 63-66	175	99	137	130	79	5.5x12
ND LT 020 204 63-66	175	114	137	130	94	5.5x12

Type	L1	W1	H1
	mm	mm	mm
ND LT 016 183 21-66	151	85	60
ND LT 025 117 21-66	151	85	60
ND LT 006 480 63-66	151	85	60
ND LT 010 386 63-66	151	85	60
ND LT 020 204 63-66	151	85	60

22907653/EN – 06/2016

4.3 Output chokes

Output chokes improve the quality of the output wave shape. When an output choke is used, the maximum cable length indicated in the technical data tables can be doubled.

Like most inverters, MOVITRAC® LTE-B+ also has unfiltered outputs. In most applications, a satisfactory performance is achieved this way. SEW-EURODRIVE recommends using output chokes in applications with the following features:

- Long motor cables up to 300 m (the nominal length can be doubled when using an output choke), requires PWM frequency ≤ 4 kHz
- High capacity motor cable (e.g., "Pyro" wire for fire protection)
- Several motors connected in parallel
- Motors without insulation suited for inverters (usually older motors)

A series of high-quality output chokes with the following main features are available for MOVITRAC® LTE-B+:

- Limitation of the output voltage drop, usually < 200 V/µs
- Limitation of transient overvoltages at the motor terminals, usually < 1000 V
- Suppression of line-related interference in low frequency ranges
- Compensation of capacitive load currents
- Reduction of HF interference emission of the motor cable
- Reduction of motor losses and audible noise caused by ripple
- Reduction of dynamic overcurrent effects on the motor side

4.3.1 Technical data

IP20, 3 x 200 – 500 V, 8 – 75 A

Type		HD LT 008 200 53-20	HD LT 012 130 53-20	HD LT 030 050 53-20
Part number		18201695	18201709	18201717
Nominal voltage	V_N	3 x AC 200 – 500 V		
Rated current	I_N	8 A	12 A	30 A
Inductance	L_N	2 mH	1.3 mH	0.5 mH
Degree of protection		IP20 (EN 60529)		
Mass	m	1.5 kg	2.8 kg	4.2 kg
Assignment to AC 230 V		0008/0015	0022	0040
Assignment to AC 400 V		0008 – 0022	0040	0055 – 0110
UL/cUL approval		Yes	Yes	Yes

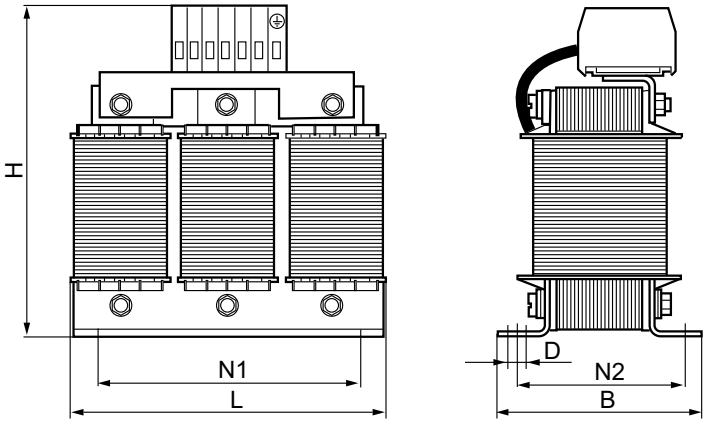
IP66, 3 x 200 – 600 V, 8 – 18 A

Type		HD LT 008 200 63-66	HD LT 012 120 63-66	HD LT 018 090 63-66
Part number		18216757	18216765	18216773
Nominal voltage	V_N	3 x AC 200 – 600 V		
Rated current	I_N	8 A	12 A	18 A
Inductance	L_N	2 mH	1.2 mH	0.9 mH
Degree of protection		IP66 (EN 60529)		
Mass	m in kg	1.7	3.2	3.2
Assignment to AC 230 V		0008/0015	0022	0040
Assignment to AC 400 V		0008 – 0022	0040	0055/0075
UL/cUL approval		Yes	Yes	Yes

22907653/EN – 06/2016

4.3.2 Dimensions

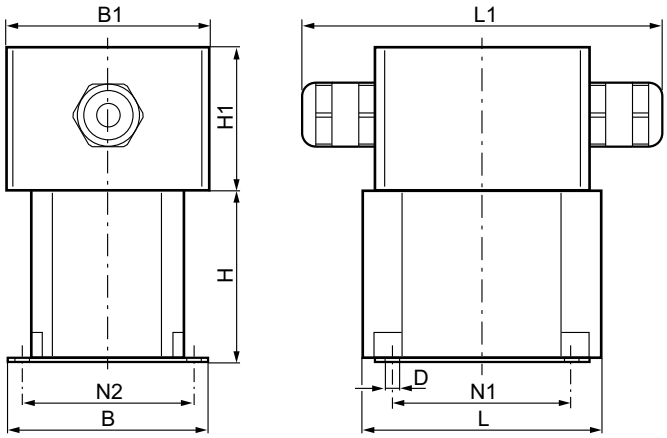
IP20, 3 × 200 – 500 V, 8 – 75 A



9453583371

Type	L	B	H	N1	N2	D
	mm	mm	mm	mm	mm	mm
HD LT 008 200 53-20	95	61	107	56	43	4
HD LT 012 130 53-20	125	76	158	100	55	5
HD LT 030 050 53-20	155	66	185	130	57	8
HD LT 075 022 53-20	190	92	223	170	68	8

IP66, 3 200 – 600 V, 8 – 18 A



9453666955

Type	L	B	H	N1	N2	D
	mm	mm	mm	mm	mm	mm
HD LT 008 200 63-66	115	74	85	80	60	5.5x7
HD LT 012 120 63-66	140	87	110	100	70	5.5x12
HD LT 018 090 63-66	140	87	110	100	70	5.5x12

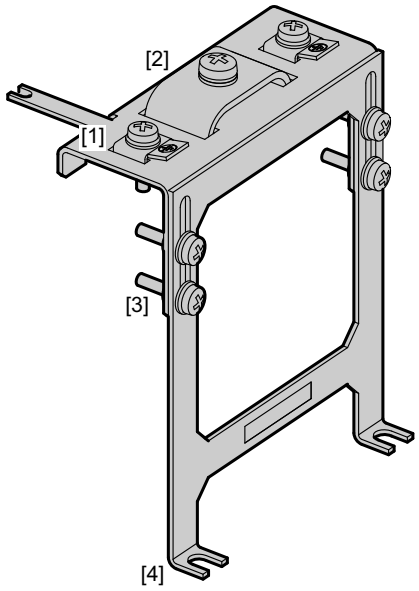
Type	L1	W1	H1
	mm	mm	mm
HD LT 008 200 63-66	151	85	60
HD LT 012 120 63-66	151	85	60
HD LT 018 090 63-66	151	85	60

22907653/EN – 06/2016

4.4 Shield plate IP20

To ensure a good EMC performance and to establish the required equipotential bonding, SEW-EURODRIVE recommends placing the shield of the motor cables on the mounting plate of the control cabinet over a large surface area. When doing this, use the shield plate listed below with an IP20 rating.

Type	Part number
LTZ SB LTX	28214994



13406635275

[1] Earth connection
[2] Terminal for motor cable
[3] Adjustment screw for BG 2 and 3
[4] Connection for back panel installation

5 Motor selection

5.1 Project planning flowchart

Clarification of
- Technical data and requirements
- Basic conditions
- System interfacing

↓

Calculation of the relevant application data
- Stationary, dynamic, regenerative power
- Speeds

↓

Gear unit selection

Determine
- Gear unit version, gear unit size, gear unit ratio

Check for gear unit utilization ($M_{amax} \geq M_a(t)$)

↓

Motor selection
- Convert torque and speed for the motor shaft
- Define the motor

↓

Check of
- Maximum occurring torque $M_{max} < 1.5 \times M_N$
- Required motor speed $< n_N$
- Thermal load by taking into account setting range and cyclic duration factor

↓

Selection of the MOVITRAC®-LTE-B+ frequency inverter
- Motor/inverter assignment
- Continuous power, peak power
- Installation conditions

↓

Selection of the braking resistor
- Based on the calculated regenerative power and the cyclic duration factor cdf

↓

Selection of the options
- External display, cable sets, etc.

↓

Check whether all requirements have been met.

22907653/EN – 06/2016

5.2 Combination for inverter and motor

Suitable motors for the inverters are found in the "AC Motors" catalog.

22907653/EN – 06/2016

6 Address list

Algeria			
Sales	Algiers	REDUCOM Sarl 16, rue des Frères Zaghnoune Bellevue 16200 El Harrach Alger	Tel. +213 21 8214-91 Fax +213 21 8222-84 http://www.reducom-dz.com info@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 http://www.sew-eurodrive.com.ar sewar@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	Vienna	SEW-EURODRIVE Ges.m.b.H. Richard-Strauss-Straße 24 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
Bangladesh			
Sales	Bangladesh	SEW-EURODRIVE INDIA PRIVATE LIMITED 345 DIT Road East Rampura Dhaka-1219, Bangladesh	Tel. +88 01729 097309 salesdhaka@seweurodrivebangladesh.com
Belarus			
Sales	Minsk	Foreign unitary production enterprise SEW-EURODRIVE RybalkoStr. 26 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 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 6900 Marche-en-Famenne	Tel. +32 84 219-878 Fax +32 84 219-879 http://www.sew-eurodrive.be service-IG@sew-eurodrive.be
Brazil			
Production Sales Service	São Paulo	SEW-EURODRIVE Brasil Ltda. Estrada Municipal José Rubim, 205 – Rodovia Santos Dumont Km 49 Indaiatuba – 13347-510 – SP	Tel. +55 19 3835-8000 sew@sew.com.br
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
Bulgaria			
Sales	Sofia	BEVER-DRIVE GmbH Bogdanovetz Str.1 1606 Sofia	Tel. +359 2 9151160 Fax +359 2 9151166 bever@bever.bg

22907653/EN – 06/2016

Cameroon			
Sales	Douala	SEW-EURODRIVE S.A.R.L. Ancienne Route Bonabéri P.O. Box B.P 8674 Douala-Cameroun	Tel. +237 233 39 02 10 Fax +237 233 39 02 10 info@sew-eurodrive-cm
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
Chile			
Assembly Sales Service	Santiago de Chile	SEW-EURODRIVE CHILE LTDA Las Encinas 1295 Parque Industrial Valle Grande LAMPA 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. 78, 13th Avenue, TEDA Tianjin 300457	Tel. +86 22 25322612 Fax +86 22 25323273 http://www.sew-eurodrive.cn info@sew-eurodrive.cn
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
	Taiyuan	SEW-EURODRIVE (Taiyuan) Co,. Ltd. No.3, HuaZhang Street, TaiYuan Economic & Technical Development Zone ShanXi, 030032	Tel. +86-351-7117520 Fax +86-351-7117522 taiyuan@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
Sales Service	Hong Kong	SEW-EURODRIVE LTD. Unit No. 801-806, 8th Floor Hong Leong Industrial Complex No. 4, Wang Kwong Road Kowloon, Hong Kong	Tel. +852 36902200 Fax +852 36902211 contact@sew-eurodrive.hk

22907653/EN – 06/2016

Colombia			
Assembly Sales Service	Bogota	SEW-EURODRIVE COLOMBIA LTDA. Calle 17 No. 132-18 Interior 2 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 10 000 Zagreb	Tel. +385 1 4613-158 Fax +385 1 4613-158 kompeks@inet.hr
Czech Republic			
Assembly Sales 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	+420 800 739 739 (800 SEW SEW)	Service Tel. +420 255 709 632 Fax +420 235 358 218 servis@sew-eurodrive.cz
Denmark			
Assembly Sales Service	Copenhagen	SEW-EURODRIVEA/S Geminivej 28-30 2670 Greve	Tel. +45 43 95 8500 Fax +45 43 9585-09 http://www.sew-eurodrive.dk sew@sew-eurodrive.dk
Egypt			
Sales Service	Cairo	Copam Egypt for Engineering & Agencies Building 10, Block 13005, First Industrial Zone, Obour City Cairo	Tel. +202 44812673 / 79 (7 lines) Fax +202 44812685 http://www.copam-egypt.com copam@copam-egypt.com
Estonia			
Sales	Tallin	ALAS-KUUL AS Reti tee 4 75301 Peetri küla, Rae vald, Harjumaa	Tel. +372 6593230 Fax +372 6593231 http://www.alas-kuul.ee veiko.soots@alas-kuul.ee
Finland			
Assembly Sales Service	Hollola	SEW-EURODRIVE OY Vesimäentie 4 15860 Hollola	Tel. +358 201 589-300 Fax +358 3 780-6211 http://www.sew-eurodrive.fi sew@sew.fi
Service	Hollola	SEW-EURODRIVE OY Keskikankaantie 21 15860 Hollola	Tel. +358 201 589-300 Fax +358 3 780-6211 http://www.sew-eurodrive.fi sew@sew.fi
Production Assembly	Karkkila	SEW Industrial Gears Oy Santasalonkatu 6, PL 8 03620 Karkkila, 03601 Karkkila	Tel. +358 201 589-300 Fax +358 201 589-310 http://www.sew-eurodrive.fi sew@sew.fi
France			
Production Sales Service	Hagenau	SEW-USOCOME 48-54 route de Soufflenheim B. P. 20185 67506 Haguenau Cedex	Tel. +33 3 88 73 67 00 Fax +33 3 88 73 66 00 http://www.usocome.com sew@usocome.com
Production	Forbach	SEW-USOCOME Zone industrielle Technopôle Forbach Sud B. P. 30269 57604 Forbach Cedex	Tel. +33 3 87 29 38 00
	Brumath	SEW-USOCOME 1 Rue de Bruxelles 67670 Mommenheim Cedex	Tel. +33 3 88 37 48 00
Assembly Sales Service	Bordeaux	SEW-USOCOME Parc d'activités de Magellan 62 avenue de Magellan – B. P. 182 33607 Pessac Cedex	Tel. +33 5 57 26 39 00 Fax +33 5 57 26 39 09

22907653/EN – 06/2016

France			
	Lyon	SEW-USOCOME 75 rue Antoine Condorcet 38090 Vaulx-Milieu	Tel. +33 4 74 99 60 00 Fax +33 4 74 99 60 15
	Nantes	SEW-USOCOME Parc d'activités de la forêt 4 rue des Fontenelles 44140 Le Bignon	Tel. +33 2 40 78 42 00 Fax +33 2 40 78 42 20
	Paris	SEW-USOCOME Zone industrielle 2 rue Denis Papin 77390 Verneuil l'Étang	Tel. +33 1 64 42 40 80 Fax +33 1 64 42 40 88
Gabon			
Sales	Libreville	SEW-EURODRIVE SARL 183, Rue 5.033.C, Lalala à droite P.O. Box 15682 Libreville	Tel. +241 03 28 81 55 +241 06 54 81 33 http://www.sew-eurodrive.cm sew@sew-eurodrive.cm
Germany			
Headquarters Production Sales	Bruchsal	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 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
Production / Industrial Gears	Bruchsal	SEW-EURODRIVE GmbH & Co KG Christian-Pähr-Str. 10 76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-2970
Production	Graben	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 1 76676 Graben-Neudorf P.O. Box Postfach 1220 – D-76671 Graben-Neudorf	Tel. +49 7251 75-0 Fax +49 7251-2970
	Östringen	SEW-EURODRIVE GmbH & Co KG, Werk Östringen Franz-Gurk-Straße 2 76684 Östringen	Tel. +49 7253 9254-0 Fax +49 7253 9254-90 oestringen@sew-eurodrive.de
Service Competence Center	Mechanics / Mechatronics	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 1 76676 Graben-Neudorf	Tel. +49 7251 75-1710 Fax +49 7251 75-1711 scc-mechanik@sew-eurodrive.de
	Electronics	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 76646 Bruchsal	Tel. +49 7251 75-1780 Fax +49 7251 75-1769 scc-elektronik@sew-eurodrive.de
Drive Technology Center	North	SEW-EURODRIVE GmbH & Co KG Alte Ricklinger Straße 40-42 30823 Garbsen (Hannover)	Tel. +49 5137 8798-30 Fax +49 5137 8798-55 dtc-nord@sew-eurodrive.de
	East	SEW-EURODRIVE GmbH & Co KG Dänkritzer Weg 1 08393 Meerane (Zwickau)	Tel. +49 3764 7606-0 Fax +49 3764 7606-30 dtc-ost@sew-eurodrive.de
	South	SEW-EURODRIVE GmbH & Co KG Domagkstraße 5 85551 Kirchheim (München)	Tel. +49 89 909552-10 Fax +49 89 909552-50 dtc-sued@sew-eurodrive.de
	West	SEW-EURODRIVE GmbH & Co KG Siemensstraße 1 40764 Langenfeld (Düsseldorf)	Tel. +49 2173 8507-30 Fax +49 2173 8507-55 dtc-west@sew-eurodrive.de
Drive Center	Berlin	SEW-EURODRIVE GmbH & Co KG Alexander-Meißner-Straße 44 12526 Berlin	Tel. +49 306331131-30 Fax +49 306331131-36 dc-berlin@sew-eurodrive.de
	Ludwigshafen	SEW-EURODRIVE GmbH & Co KG c/o BASF SE Gebäude W130 Raum 101 67056 Ludwigshafen	Tel. +49 7251 75 3759 Fax +49 7251 75 503759 dc-ludwigshafen@sew-eurodrive.de
	Saarland	SEW-EURODRIVE GmbH & Co KG Gottlieb-Daimler-Straße 4 66773 Schwalbach Saar – Hülzweiler	Tel. +49 6831 48946 10 Fax +49 6831 48946 13 dc-saarland@sew-eurodrive.de
	Ulm	SEW-EURODRIVE GmbH & Co KG Dieselstraße 18 89160 Dornstadt	Tel. +49 7348 9885-0 Fax +49 7348 9885-90 dc-ulm@sew-eurodrive.de

22907653/EN – 06/2016

Germany			
	Würzburg	SEW-EURODRIVE GmbH & Co KG Nürnbergerstraße 118 97076 Würzburg-Lengfeld	Tel. +49 931 27886-60 Fax +49 931 27886-66 dc-wuerzburg@sew-eurodrive.de
Drive Service Hotline / 24 Hour Service			0 800 SEWHELP 0 800 7394357
Great Britain			
Assembly Sales Service	Normanton	SEW-EURODRIVE Ltd. DeVilliers Way Trident Park Normanton West Yorkshire WF6 1GX	Tel. +44 1924 893-855 Fax +44 1924 893-702 http://www.sew-eurodrive.co.uk info@sew-eurodrive.co.uk
	Drive Service Hotline / 24 Hour Service		Tel. 01924 896911
Greece			
Sales	Athens	Christ. Boznos & Son S.A. 12, K. Mavromichali Street P.O. Box 80136 18545 Piraeus	Tel. +30 2 1042 251-34 Fax +30 2 1042 251-59 http://www.boznos.gr info@boznos.gr
Hungary			
Sales Service	Budapest	SEW-EURODRIVE Kft. Csillaghegyí út 13. 1037 Budapest	Tel. +36 1 437 06-58 Fax +36 1 437 06-50 http://www.sew-eurodrive.hu office@sew-eurodrive.hu
Iceland			
Sales	Reykjavik	Varma & Vélaverk ehf. Knarrarvogi 4 104 Reykjavík	Tel. +354 585 1070 Fax +354 585)1071 http://www.varmaverk.is vov@vov.is
India			
Registered Office Assembly Sales Service	Vadodara	SEW-EURODRIVE India Private Limited Plot No. 4, GIDC POR Ramangamdi • Vadodara - 391 243 Gujarat	Tel. +91 265 3045200 Fax +91 265 3045300 http://www.seweurodriveindia.com salesvadodara@seweurodriveindia.com
Assembly Sales Service	Chennai	SEW-EURODRIVE India Private Limited Plot No. K3/1, Sipcot Industrial Park Phase II Mambakkam Village Sriperumbudur - 602105 Kancheepuram Dist, Tamil Nadu	Tel. +91 44 37188888 Fax +91 44 37188811 saleschennai@seweurodriveindia.com
	Pune	SEW-EURODRIVE India Private Limited Plant: Plot No. D236/1, Chakan Industrial Area Phase- II, Warale, Tal- Khed, Pune-410501, Maharashtra	Tel. +91 21 35 628700 Fax +91 21 35 628715 salespune@seweurodriveindia.com
Indonesia			
Sales	Medan	PT. Serumpun Indah Lestari Jl.Pulau Solor no. 8, Kawasan Industri Medan II Medan 20252	Tel. +62 61 687 1221 Fax +62 61 6871429 / +62 61 6871458 / +62 61 30008041 sil@serumpunindah.com serumpunindah@yahoo.com http://www.serumpunindah.com
	Jakarta	PT. Cahaya Sukses Abadi Komplek Rukan Puri Mutiara Blok A no 99, Sunter Jakarta 14350	Tel. +62 21 65310599 Fax +62 21 65310600 csajkt@cbn.net.id
	Jakarta	PT. Agrindo Putra Lestari JL.Pantai Indah Selatan, Komplek Sentra Industri Terpadu, Pantai indah Kapuk Tahap III, Blok E No. 27 Jakarta 14470	Tel. +62 21 2921-8899 Fax +62 21 2921-8988 aplindo@indosat.net.id http://www.aplindo.com

22907653/EN – 06/2016

Indonesia			
	Surabaya	PT. TRIAGRI JAYA ABADI Jl. Sukosemolo No. 63, Galaxi Bumi Permai G6 No. 11 Surabaya 60111	Tel. +62 31 5990128 Fax +62 31 5962666 sales@triagri.co.id http://www.triagri.co.id
	Surabaya	CV. Multi Mas Jl. Raden Saleh 43A Kav. 18 Surabaya 60174	Tel. +62 31 5458589 Fax +62 31 5317220 sianhwa@sby.centrin.net.id http://www.cvmultimas.com
Ireland			
Sales Service	Dublin	Alperton Engineering Ltd. 48 Moyle Road Dublin Industrial Estate Glasnevin, Dublin 11	Tel. +353 1 830-6277 Fax +353 1 830-6458 http://www.alperton.ie info@alperton.ie
Israel			
Sales	Tel Aviv	Liraz Handasa Ltd. Ahofer Str 34B / 228 58858 Holon	Tel. +972 3 5599511 Fax +972 3 5599512 http://www.liraz-handasa.co.il office@liraz-handasa.co.il
Italy			
Assembly Sales Service	Milan	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via Bernini,14 20020 Solaro (Milano)	Tel. +39 02 96 980229 Fax +39 02 96 980 999 http://www.sew-eurodrive.it milano@sew-eurodrive.it
Ivory Coast			
Sales	Abidjan	SEW-EURODRIVE SARL Ivory Coast Rue des Pêcheurs, Zone 3 26 BP 916 Abidjan 26	Tel. +225 21 21 81 05 Fax +225 21 25 30 47 info@sew-eurodrive.ci http://www.sew-eurodrive.ci
Japan			
Assembly Sales Service	Iwata	SEW-EURODRIVE JAPAN CO., LTD 250-1, Shimoman-no, Iwata Shizuoka 438-0818	Tel. +81 538 373811 Fax +81 538 373814 http://www.sew-eurodrive.co.jp sewjapan@sew-eurodrive.co.jp hamamatsu@sew-eurodrive.co.jp
Kazakhstan			
Sales	Almaty	SEW-EURODRIVE LLP 291-291A, Tole bi street 050031, Almaty	Tel. +7 (727) 350 5156 Fax +7 (727) 350 5156 http://www.sew-eurodrive.kz sew@sew-eurodrive.kz
	Tashkent	SEW-EURODRIVE LLP Representative office in Uzbekistan 96A, Sharaf Rashidov street, Tashkent, 100084	Tel. +998 71 2359411 Fax +998 71 2359412 http://www.sew-eurodrive.uz sew@sew-eurodrive.uz
	Ulaanbaatar	IM Trading LLC Narny zam street 62 Sukhbaatar district, Ulaanbaatar 14230	Tel. +976-77109997 Fax +976-77109997 imt@imt.mn
Kenya			
Sales	Nairobi	SEW-EURODRIVE Pty Ltd Transnational Plaza, 5th Floor Mama Ngina Street P.O. Box 8998-00100 Nairobi	Tel. +254 791 398840 http://www.sew-eurodrive.co.tz info@sew.co.tz
Latvia			
Sales	Riga	SIA Alas-Kuul Katlakalna 11C 1073 Riga	Tel. +371 6 7139253 Fax +371 6 7139386 http://www.alas-kuul.lv info@alas-kuul.com

22907653/EN – 06/2016

Lebanon			
Sales (Lebanon)	Beirut	Gabriel Acar & Fils sarl B. P. 80484 Bourj Hammoud, Beirut	Tel. +961 1 510 532 Fax +961 1 494 971 ssacar@inco.com.lb
Sales (Jordan, Kuwait , Saudi Arabia, Syria)	Beirut	Middle East Drives S.A.L. (offshore) Sin El Fil. B. P. 55-378 Beirut	Tel. +961 1 494 786 Fax +961 1 494 971 http://www.medrives.com info@medrives.com
Lithuania			
Sales	Alytus	UAB Irseva Statybininku 106C 63431 Alytus	Tel. +370 315 79204 Fax +370 315 56175 http://www.irseva.lt irmantas@irseva.lt
Luxembourg			
representation: Belgium			
Macedonia			
Sales	Skopje	Boznos DOOEL Dime Anicin 2A/7A 1000 Skopje	Tel. +389 23256553 Fax +389 23256554 http://www.boznos.mk
Malaysia			
Assembly Sales Service	Johor	SEW-EURODRIVE SDN BHD No. 95, Jalan Seroja 39, Taman Johor Jaya 81000 Johor Bahru, Johor West Malaysia	Tel. +60 7 3549409 Fax +60 7 3541404 sales@sew-eurodrive.com.my
Mexiko			
Assembly Sales Service	Quéretaro	SEW-EURODRIVE MEXICO S.A. de C.V. SEM-981118-M93 Tequisquiapan No. 102 Parque Industrial Quéretaro C.P. 76220 Querétaro, México	Tel. +52 442 1030-300 Fax +52 442 1030-301 http://www.sew-eurodrive.com.mx scmexico@seweurodrive.com.mx
Sales Service	Puebla	SEW-EURODRIVE MEXICO S.A. de C.V. Calzada Zavaleta No. 3922 Piso 2 Local 6 Col. Santa Cruz Buenavista C.P. 72154 Puebla, México	Tel. +52 (222) 221 248 http://www.sew-eurodrive.com.mx scmexico@seweurodrive.com.mx
Mongolia			
Technical Office	Ulaanbaatar	IM Trading LLC Narny zam street 62 Union building, Suite A-403-1 Sukhbaatar district, Ulaanbaatar 14230	Tel. +976-77109997 Tel. +976-99070395 Fax +976-77109997 http://imt.mn/ imt@imt.mn
Morocco			
Sales Service	Bouskoura	SEW-EURODRIVE Morocco Parc Industriel CFCIM, Lot 55 and 59 Bouskoura	Tel. +212 522 88 85 00 Fax +212 522 88 84 50 http://www.sew-eurodrive.ma sew@sew-eurodrive.ma
Namibia			
Sales	Swakopmund	DB Mining & Industrial Services Einstein Street Strauss Industrial Park Unit1 Swakopmund	Tel. +264 64 462 738 Fax +264 64 462 734 anton@dbminingnam.com
Netherlands			
Assembly Sales Service	Rotterdam	SEW-EURODRIVE B.V. Industrieweg 175 3044 AS Rotterdam Postbus 10085 3004 AB Rotterdam	Tel. +31 10 4463-700 Fax +31 10 4155-552 Service: 0800-SEWHELP http://www.sew-eurodrive.nl info@sew-eurodrive.nl

22907653/EN – 06/2016

New Zealand			
Assembly Sales Service	Auckland	SEW-EURODRIVE NEW ZEALAND LTD. P.O. Box 58-428 82 Greenmount drive East Tamaki Auckland	Tel. +64 9 2745627 Fax +64 9 2740165 http://www.sew-eurodrive.co.nz sales@sew-eurodrive.co.nz
	Christchurch	SEW-EURODRIVE NEW ZEALAND LTD. 30 Lodestar Avenue, Wigram Christchurch	Tel. +64 3 384-6251 Fax +64 3 384-6455 sales@sew-eurodrive.co.nz
Nigeria			
Sales	Lagos	Greenpeg Nig. Ltd Plot 296A, Adeyemo Akapo Str. Omole GRA Ikeja Lagos-Nigeria	Tel. +234-701-821-9200-1 http://www.greenpegltd.com bolaji.adekunle@greenpegltd.com
Norway			
Assembly Sales Service	Moss	SEW-EURODRIVE A/S Solgaard skog 71 1599 Moss	Tel. +47 69 24 10 20 Fax +47 69 24 10 40 http://www.sew-eurodrive.no sew@sew-eurodrive.no
Pakistan			
Sales	Karachi	Industrial Power Drives Al-Fatah Chamber A/3, 1st Floor Central Commercial Area, Sultan Ahmed Shah Road, Block 7/8, Karachi	Tel. +92 21 452 9369 Fax +92-21-454 7365 seweurodrive@cyber.net.pk
Paraguay			
Sales	Fernando de la Mora	SEW-EURODRIVE PARAGUAY S.R.L De la Victoria 112, Esquina nueva Asunción Departamento Central Fernando de la Mora, Barrio Bernardino	Tel. +595 991 519695 Fax +595 21 3285539 sewpy@sew-eurodrive.com.py
Peru			
Assembly Sales Service	Lima	SEW EURODRIVE DEL PERU S.A.C. Los Calderos, 120-124 Urbanizacion Industrial Vulcano, ATE, Lima	Tel. +51 1 3495280 Fax +51 1 3493002 http://www.sew-eurodrive.com.pe sewperu@sew-eurodrive.com.pe
Philippines			
Sales	Makati	P.T. Cerna Corporation 4137 Ponte St., Brgy. Sta. Cruz Makati City 1205	Tel. +63 2 519 6214 Fax +63 2 890 2802 mech_drive_sys@ptcerna.com http://www.ptcerna.com
Poland			
Assembly Sales Service	Łódź	SEW-EURODRIVE Polska Sp.z.o.o. ul. Techniczna 5 92-518 Łódź	Tel. +48 42 293 00 00 Fax +48 42 293 00 49 http://www.sew-eurodrive.pl sew@sew-eurodrive.pl
	Service	Tel. +48 42 293 0030 Fax +48 42 293 0043	24 Hour Service Tel. +48 602 739 739 (+48 602 SEW SEW) serwis@sew-eurodrive.pl
Portugal			
Assembly Sales Service	Coimbra	SEW-EURODRIVE, LDA. Av. da Fonte Nova, n.º 86 3050-379 Mealhada	Tel. +351 231 20 9670 Fax +351 231 20 3685 http://www.sew-eurodrive.pt infosew@sew-eurodrive.pt
Romania			
Sales Service	Bucharest	Sialco Trading SRL str. Brazilia nr. 36 011783 Bucuresti	Tel. +40 21 230-1328 Fax +40 21 230-7170 sialco@sialco.ro
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Senegal			
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	Košice	SEW-Eurodrive SK s.r.o. Slovenská ulica 26 040 01 Košice	Tel. +421 55 671 2245 Fax +421 55 671 2254 Mobile +421 907 671 976 sew@sew-eurodrive.sk
Slovenia			
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	Cape Town	SEW-EURODRIVE (PROPRIETARY) LIMITED Rainbow Park Cnr. Racecourse & Omuramba Road Montague Gardens Cape Town P.O.Box 36556 Chempet 7442	Tel. +27 21 552-9820 Fax +27 21 552-9830 Telex 576 062 bgriffiths@sew.co.za
	Durban	SEW-EURODRIVE (PROPRIETARY) LIMITED 48 Prospecton Road Isipingo Durban P.O. Box 10433, Ashwood 3605	Tel. +27 31 902 3815 Fax +27 31 902 3826 cdejager@sew.co.za
	Nelspruit	SEW-EURODRIVE (PROPRIETARY) LIMITED 7 Christie Crescent Vintonia P.O.Box 1942 Nelspruit 1200	Tel. +27 13 752-8007 Fax +27 13 752-8008 robermeyer@sew.co.za
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22907653/EN – 06/2016

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	Nan Tou	Ting Shou Trading Co., Ltd. No. 55 Kung Yeh N. Road Industrial District Nan Tou 540	Tel. +886 49 255353 Fax +886 49 257878 sewtwn@ms63.hinet.net http://www.tingshou.com.tw
Tanzania			
Sales	Daressalam	SEW-EURODRIVE PTY LIMITED TANZANIA Plot 52, Regent Estate PO Box 106274 Dar Es Salaam	Tel. +255 0 22 277 5780 Fax +255 0 22 277 5788 http://www.sew-eurodrive.co.tz info@sew.co.tz
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Tunisia			
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22907653/EN – 06/2016

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22907653/EN – 06/2016

Index

A

Accessories 9
Ambient conditions 17
Available controllers 40

B

Braking resistor minimum values 42
Braking resistors
  Accessories 42
  Flat design 45
  Recommendations 44
  Switching circuit 42
  Wire resistors 43, 46
Braking resistors BW
  Dimension drawing 45

C

Combination for inverter and motor 55
Communication socket RJ45 15
Conformity 11
Control board 38
Converter card 36

D

Dimensions
  Dimension table 24
  Housing 23
  IP20 housing 25
  IP66-NEMA-4X housing 23
Display 12

E

Electromagnetic interference emission 16

F

Fieldbus gateways 40
  Available gateways 40
  Theory of operation 41
Flat-type resistors 43

G

Grid compatibility 8

I

Input voltage ranges 10
Installation
  IP20 housing 26

K

Keypad 12

L

Line chokes 47
  Dimensions 49
  Technical data 48
LT BG OLED 27
LT BG OLED remote keypad 27

M

Markets and applications 8
Motor selection 54
  Project planning diagram 54
Motor/inverter assignment 55
Mounting position 25

N

Network connection
  Basic package (A) 29
  Package B 30
  Package C 31
Network package 29
  Example 30

O

OLED keypad 27
Output chokes 51
  Dimensions 52
  Technical data 51
Output power with EMC filter 19
Output power without EMC filter 18
Overview of signal terminals 13

P

Parameter module 39
Project planning diagram 54
Protection functions 10

R

Remote keypad option LT BG-B;accessories
  Remote keypad LT BG-B 27
RJ45 communication socket 15

22907653/EN – 06/16

S

Second relay output
Relay output, second ... 32
Shield plate ... 53
Signal connections ... 14
Signal relay ... 34
System description ... 4
Technical features ... 9
System overview ... 5

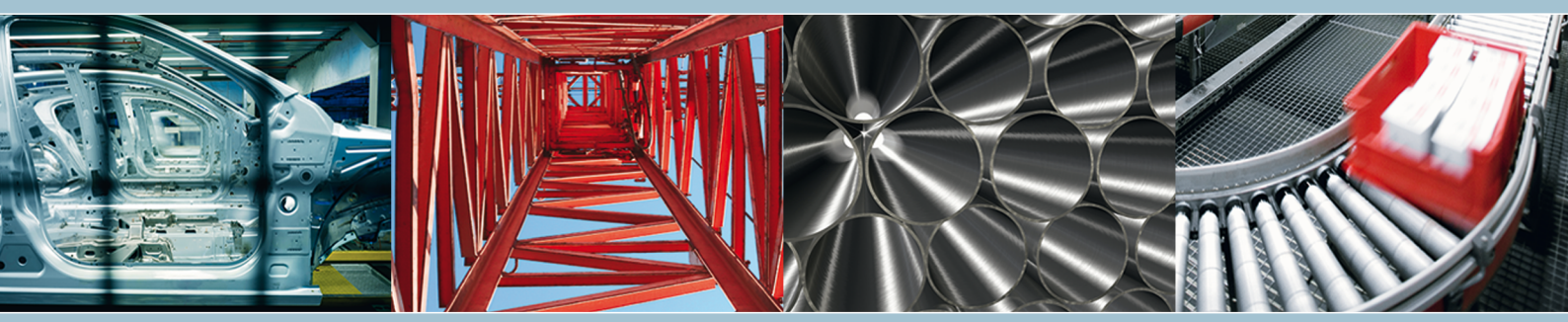
T

Technical data ... 16
Options and variants ... 27
System accessories ... 42
Technology ... 4
The inverters at a glance ... 6
Type designation ... 11

U

User interface ... 12

22907653/EN – 06/16





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