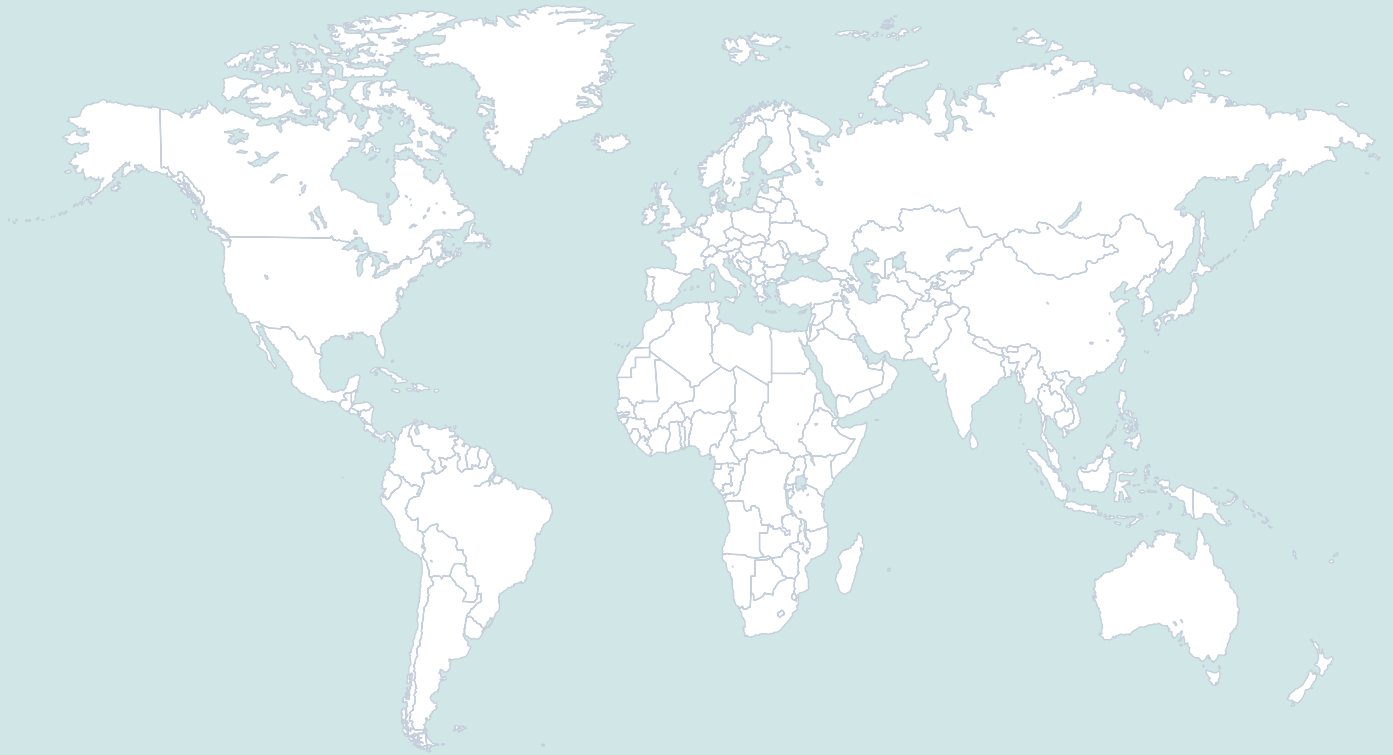




Catalog



MOVITRAC[®] LTP- B





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General Specifications for MOVITRAC® LTP-B

Input voltage ranges

1 General Specifications for MOVITRAC® LTP-B

1.1 Input voltage ranges

Depending on model and power rating the drives are designed for direct connection to the following supplies:

MOVITRAC® LTP-B size 2 (200 – 240 V):

200 V – 240 V ± 10 %, 1-phase*, 50 – 60 Hz ± 5 %

MOVITRAC® LTP-B all sizes (200 – 240 V):

200 V – 240 V ± 10 %, 3-phase, 50 – 60 Hz ± 5 %

MOVITRAC® LTP-B all sizes (380 – 480 V):

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

• INFORMATION

* It is also possible to connect 1-phase MOVITRAC® LTP-B units to 2-phases of a 200 – 240 V, 3-phase supply systems.

Products used with a 3-phase supply are designed for a maximum supply imbalance of 3 % between phases. For input supplies which have a supply imbalance greater than 3 % (typically the Indian subcontinent and parts of the Asia Pacific including China) SEW-EURODRIVE recommends the use of input chokes.

1.2 Product designation

<p>MC LTP B 0015 2 0 1 4 00 (60 Hz)</p>	<p>60 Hz</p> <p>Type</p> <p>Quadrants</p> <p>Connection type</p> <p>Interference suppression on the supply side</p> <p>Line voltage</p> <p>Recommended motor power</p> <p>Version</p> <p>Product type</p>	<p>American version only</p> <p>00 = Standard IP20 housing 10 = IP55 / NEMA 12 housing</p> <p>4 = 4Q (with brake chopper)</p> <p>1 = 1-phase 3 = 3-phase</p> <p>0 = class 0 A = class C2 B = class C1</p> <p>2 = 200 – 240 V 5 = 380 – 480 V</p> <p>0015 = 1.5 kW</p> <p>B</p> <p>MC LTP</p>
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1.3 Output power and current ratings

1.3.1 1-phase system AC 230 V for 3-phase AC 230 V motors

MOVITRAC® LTP-B – EMC filter class B					
IP20 Standard with filter	Type	MC LTP-B...	0008-2B1-4-00	0015-2B1-4-00	0022-2B1-4-00
	Part number		18251382	18251528	18251641
IP55 / NEMA 12 housing with filter	Type	MC LTP-B...	0008-2B1-4-10	0015-2B1-4-10	0022-2B1-4-10
	Part number		18251390	18251536	18251668
INPUT					
Supply voltage	V_{line}	1 × AC 200 – 240 V ± 10 %			
Supply frequency	f_{line}	50 / 60 Hz ± 5 %			
Supply cable size	mm ²	2.5		4.0	
	AWG	14		12	
Supply fuse rating	A	16	20	32 (35) ¹⁾	
Nominal input current	A	10.5	16.2	23.8	
OUTPUT					
Recommended motor power	kW	0.75	1.5	2.2	
	hp	1.0	2.0	3	
Output voltage	V_{motor}	3 × 20 – V_{line}			
Output current	A	4.3	7	10.5	
Motor cable size Cu 75C	mm ²	1.5	2.5		
	AWG	16	14		
Max. motor cable length	Shielded	m	100		
	Unshielded		150		
GENERAL					
Size		2			
Heat loss at nominal output power	W	45		66	
Min. braking resistor value	Ω	27			

1) Recommended value for UL compliance



General Specifications for MOVITRAC® LTP-B

Output power and current ratings

1.3.2 3-phase system AC 230 V for 3-phase AC 230 V motors

Sizes 2 & 3

MOVITRAC® LTP-B – EMC filter class A								
IP20 Standard with filter	Type	MC LTP-B...	0008-2A3-4-00	0015-2A3-4-00	0022-2A3-4-00	0030-2A3-4-00	0040-2A3-4-00	0055-2A3-4-00
	Part number		18251358	18251471	18251617	18251722	18251765	18251846
IP55 / NEMA 12 housing with filter	Type	MC LTP-B...	0008-2A3-4-10	0015-2A3-4-10	0022-2A3-4-10	0030-2A3-4-10	0040-2A3-4-10	0055-2A3-4-10
	Part number		18251366	18251498	18251625	18251730	18251773	18251854
INPUT								
Supply voltage	V_{line}	$3 \times AC 200 - 240 V \pm 10 \%$						
Supply frequency	f_{line}	50 / 60 Hz $\pm 5 \%$						
Supply cable size	mm^2	1.5	2.5			4.0	6.0	
	AWG	16	14			12	10	
Supply fuse rating	A	10	10	16	32 (35) ¹⁾		50	
Nominal input current	A	5.7	8.4	13.1	16.1	20.7	25	
OUTPUT								
Recommended motor power	kW	0.75	1.5	2.2	3	4	5.5	
	hp	1.0	2.0	3.0	4.0	5.4	7.4	
Output voltage	V_{motor}	$3 \times 20 - V_{line}$						
Output current	A	4.3	7	10.5	14	18	24	
Motor cable size Cu 75C	mm^2	1.5	2.5			4	6	
	AWG	16	14			12	10	
Max. motor cable length	Shielded	m	100					
	Unshielded		150					
GENERAL								
Size		2			3		3/4 ²⁾	
Heat loss at nominal output power	W	45		66	90	120	165	
Min. braking resistor value	Ω	27			22		12	

1) Recommended value for UL compliance

2) IP20 enclosure – size 3 / IP55 enclosure – size 4



Sizes 4 & 5

MOVITRAC® LTP-B – EMC filter class A						
IP55 / NEMA 12 housing	Type	MC LTP-B...	0075-2A3-4-10	0110-2A3-4-10	0150-2A3-4-10	0185-2A3-4-10
	Part number		18251919	18251978	18252036	18252060
INPUT						
Supply voltage	V_{line}	3 × AC 200 – 240 V ± 10 %				
Supply frequency	f_{line}	50 / 60 Hz ± 5 %				
Supply cable size	mm ²	10	16	25		
	AWG	8	6	4		
Supply fuse rating	A	50	63	80		
Nominal input current	A	46.6	54.1	69.6	76.9	
OUTPUT						
Recommended motor power	kW	7.5	11	15	18.5	
	hp	10.1	14.8	20.1	24.8	
Output voltage	V_{motor}	3 × 20 – V_{line}				
Output current	A	39	46	61	72	
Motor cable size Cu 75C	mm ²	10	16	25		
	AWG	8	6	4		
Max. motor cable length	Shielded	m	100			
	Unshielded		150			
GENERAL						
Size		4			5	
Heat loss at nominal output power	W	225	330	450	555	
Min. braking resistor value	Ω	12			6	



General Specifications for MOVITRAC® LTP-B

Output power and current ratings

Size 6

MOVITRAC® LTP-B – EMC filter class A						
IP55 / NEMA 12 housing	Type	MC LTP-B...	0220-2A3-4-10	0300-2A3-4-10	0370-2A3-4-10	0450-2A3-4-10
	Part number		18252087	18252117	18252141	18252176
INPUT						
Supply voltage	V_{line}	3 × AC 200 – 240 V ± 10 %				
Supply frequency	f_{line}	50 / 60 Hz ± 5 %				
Supply cable size	mm ²	35	50	70	90	
	AWG	2	1/0	2/0	4/0	
Supply fuse rating	A	100	125	160	200	
Nominal input current	A	92.3	116	150	176	
OUTPUT						
Recommended motor power	kW	22	30	37	45	
	hp	30.0	40.2	49.6	60.3	
Output voltage	V_{motor}	3 × 20 – V_{line}				
Output current	A	90	110	150	180	
Motor cable size Cu 75C	mm ²	35	50	70	90	
	AWG	2	1/0	2/0	4/0	
Max. motor cable length	Shielded	m	100			
	Unshielded		150			
GENERAL						
Size		6				
Heat loss at nominal output power	W	660	900	1110	1350	
Min. braking resistor value	Ω	6	3			



Size 7

MOVITRAC® LTP-B – EMC filter class A					
IP55 / NEMA 12 housing	Type	MC LTP-B...	0550-2A3-4-10	0750-2A3-4-10	0900-2A3-4-10
	Part number		18252206	18252230	18252265
INPUT					
Supply voltage	V_{line}	3 × AC 200 – 240 V ± 10 %			
Supply frequency	f_{line}	50 / 60 Hz ± 5 %			
Supply cable size	mm ²	150	2 × 120	2 × 120	
	AWG	–	–	–	
Supply fuse rating	A	250	315	400	
Nominal input current	A	217	355	312	
OUTPUT					
Recommended motor power	kW	55	75	90	
	hp	73.8	100.6	120.7	
Output voltage	V_{motor}	3 × 20 – V_{line}			
Output current	A	202	248	302	
Motor cable size Cu 75C	mm ²	150	2 × 120	2 × 120	
	AWG	4/0	–	–	
Max. motor cable length	Shielded	m	100		
	Unshielded		150		
GENERAL					
Size		7			
Heat loss at nominal output power	W	1650	2250	2700	
Min. braking resistor value	Ω	3			



General Specifications for MOVITRAC® LTP-B

Output power and current ratings

1.3.3 3-phase system AC 400 V for 3-phase AC 400 V motors

Sizes 2 & 3

MOVITRAC® LTP-B – EMC filter class A									
IP20-Standard	Type	MC LTP-B...	0008-5A3-4-00	0015-5A3-4-00	0022-5A3-4-00	0040-5A3-4-00	0055-5A3-4-00	0075-5A3-4-00	0110-5A3-4-00
	Part number		18251412	18251552	18251684	18251803	18251870	18251927	18251986
IP55 / NEMA 12 housing	Type	MC LTP-B...	0008-5A3-4-10	0015-5A3-4-10	0022-5A3-4-10	0040-5A3-4-10	0055-5A3-4-10	0075-5A3-4-10	0110-5A3-4-10
	Part number		18251420	18251560	18251692	18251811	18251889	18251935	18251994
INPUT									
Supply voltage	V_{line}	3 × AC 380 – 480 V ± 10 %							
Supply frequency	f_{line}	50 / 60 Hz ± 5 %							
Supply cable size	mm ²	1.5			2.5			4	6
	AWG	16			14			12	10
Supply fuse rating	A	6	10	16	16 (15) ¹⁾	20	25	32 (35) ¹⁾	
Nominal input current	A	3.1	4.8	7.2	10.8	17.6	22.1	28.2	
OUTPUT									
Recommended motor power	kW	0.75	1.5	2.2	4	5.5	7.5	11	
	hp	1	2	3	5.4	7.4	10.1	14.8	
Output voltage	V_{motor}	3 × 20 – V_{line}							
Output current	A	2.2	4.1	5.8	9.5	14	18	24	
Motor cable size Cu 75C	mm ²	1.5			2.5			4	6
	AWG	16			14			12	10
Max. motor cable length	Shielded	100							
	Unshielded	150							
GENERAL									
Size		2				3			3/4 ²⁾
Heat loss at nominal output power	W	22	45	66	120	165	225	330	
Min. braking resistor value	Ω	82				47			

1) Recommended value for UL compliance

2) IP20 enclosure – size 3 / IP55 enclose – size 4



Sizes 4 & 5

MOVITRAC® LTP-B – EMC filter class A							
IP55 / NEMA 12 housing	Type	MC LTP-B...	0150-5A3-4-10	0185-5A3-4-10	0220-5A3-4-10	0300-5A3-4-10	0370-5A3-4-10
	Part number		18252044	18252079	18252095	18252125	18252168
INPUT							
Supply voltage	V_{line}	3 × AC 380 – 480 V ± 10 %					
Supply frequency	f_{line}	50 / 60 Hz ± 5 %					
Supply cable size	mm ²	6	10	16	25	35	
	AWG	10	8	6	4	2	
Supply fuse rating	A	50		63	80		
Nominal input current	A	32.9	46.6	54.1	69.6	76.9	
OUTPUT							
Recommended motor power	kW	15	18.5	22	30	37	
	hp	20.1	24.8	30.0	40.2	49.6	
Output voltage	V_{motor}	3 × 20 – V_{line}					
Output current	A	30	39	46	61	72	
Motor cable size Cu 75C	mm ²	6	10	16	25		
	AWG	10	8	6	4		
Max. motor cable length	Shielded	m	100				
	Unshielded		150				
GENERAL							
Size		4				5	
Heat loss at nominal output power	W	450	555	660	900	1110	
Min. braking resistor value	Ω	27				12	



General Specifications for MOVITRAC® LTP-B

Output power and current ratings

Size 6

MOVITRAC® LTP-B – EMC filter class A						
IP55 / NEMA 12 housing	Type	MC LTP-B...	0450-5A3-4-10	0550-5A3-4-10	0750-5A3-4-10	0900-5A3-4-10
	Part number		18252184	18252214	18252249	18252273
INPUT						
Supply voltage	V_{line}	3 × AC 380 – 480 V ± 10 %				
Supply frequency	f_{line}	50 / 60 Hz ± 5 %				
Supply cable size	mm ²	35	50	70	90	
	AWG	2	1/0	2/0	4/0	
Supply fuse rating	A	100	125	160	200	
Nominal input current	A	92.3	116	150	176	
OUTPUT						
Recommended motor power	kW	45	55	75	90	
	hp	60.3	73.8	100.6	120.7	
Output voltage	V_{motor}	3 × 20 – V_{line}				
Output current	A	90	110	150	180	
Motor cable size Cu 75C	mm ²	35	50	70	90	
	AWG	2	1/0	2/0	4/0	
Max. motor cable length	Shielded	m	100			
	Unshielded		150			
GENERAL						
Size		6				
Heat loss at nominal output power	W	1350	1650	2250	2700	
Min. braking resistor value	Ω	12	6			



Size 7

MOVITRAC® LTP-B – EMC filter class A					
IP55 / NEMA 12 housing	Type	MC LTP-B...	1100-5A3-4-10	1320-5A3-4-10	1600-5A3-4-10
	Part number		18252303	18252311	18252346
INPUT					
Supply voltage	V_{line}	3 × AC 380 – 480 V ± 10 %			
Supply frequency	f_{line}	50 / 60 Hz ± 5 %			
Supply cable size	mm ²	150	2 × 120	2 × 120	
	AWG	–	–	–	
Supply fuse rating	A	250	315	315	
Nominal input current	A	217	255	312	
OUTPUT					
Recommended motor power	kW	110	132	160	
	hp	147.5	177.0	214.6	
Output voltage	V_{motor}	3 × 20 – V_{line}			
Output current	A	202	240	302	
Motor cable size Cu 75C	mm ²	150	2 × 120	2 × 120	
	AWG	–	–	–	
Max. motor cable length	Shielded	m	100		
	Unshielded		150		
GENERAL					
Size		7			
Heat loss at nominal output power	W	3300	3960	4800	
Min. braking resistor value	Ω	4.7			



1.4 Overload capacity

Overload capacity	60 seconds	2 seconds
Default setting	150 %	175 %
CMP	200 %	250 % ¹⁾
Sync 250	200 %	250 %
MGFA2 / MGFA4	200 % ²⁾	300 % ²⁾

1) Only 200 % for size 3, 5.5 kW

2) Depends on drive rating

For motor overload adjustment see parameter *P1-08 Motor rated current*.

1.5 Protection features

- Output short-circuit, phase-to-phase, phase-to-ground
- Output over-current
- Overload protection
 - Drive delivers 150 % of rated motor current for 60 seconds. See chapter "Overload capacity" (page 14).
- Over-voltage trip
 - Set at 123 % of drive maximum rated supply voltage.
- Under-voltage trip
- Over-temperature trip
- Under-temperature trip
 - Drive will trip if enabled below -10 °C
- Supply phase loss
 - A running drive will trip if 1 phase of a 3-phase supply is lost for more than 15 seconds.

1.6 Conformance

All products conform to the following international standards:

- CE marked for low voltage directive
- UL 508C Power conversion equipment
- EN 61800-3 Adjustable speed electrical power drive systems – Part 3
- EN 61000-6 / -2, -3, -4 Generic immunity / Emission standards (EMC)
- Enclosure protection level according to NEMA 250, EN 60529
- Flammability rating according to UL 94
- C-Tick
- cUL



1.7 Environmental

Operational ambient temperature range	-10 °C to +50 °C at default PWM frequency (IP20) -10 °C to +40 °C at default PWM frequency (IP55, NEMA 12 k)
Maximum ambient temperature derating	4 % / °C up to 55 °C for IP20 drives 4 % / °C up to 50 °C for IP55, NEMA 12 k
Storage ambient temperature range	-40 °C to +60 °C
Maximum altitude for rated operation	1000 m
Derating above 1000 m	1 % / 100 m to max. 2000 m
Maximum relative humidity	95 % (non-condensing)
Protection rating of standard drive housing	IP20
Higher protection rating of drive enclosure	IP55, NEMA 12 k

1.8 Dimensions

MOVITRAC® LTP-B is available in 2 housing variants:

- Standard IP20 housing for use in switch cabinets
- IP55 / NEMA 12 k

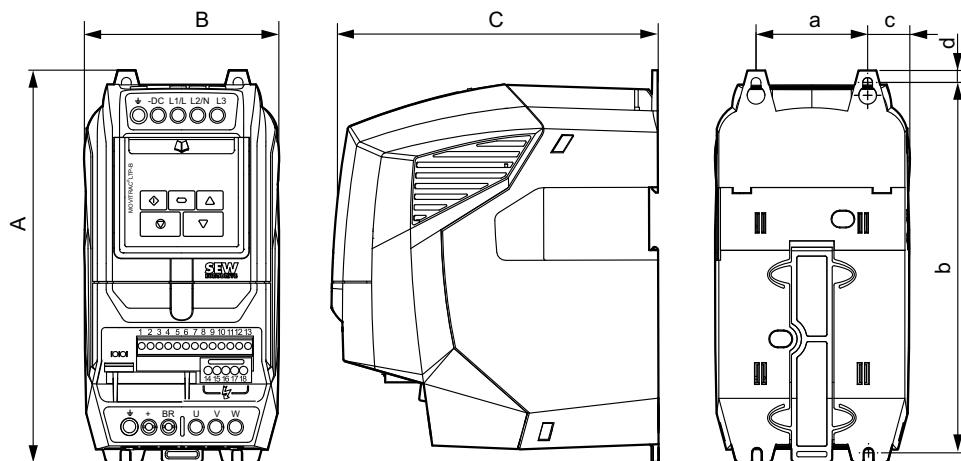
The IP55 / NEMA 12 k housing is protected against moisture and dust. Therefore, the drives can be operated indoors under harsh conditions. Electronically, the drives are identical and the only differences are the dimensions of the housing and the weight.



General Specifications for MOVITRAC® LTP-B

Dimensions

1.8.1 Dimensions of the IP20 housing



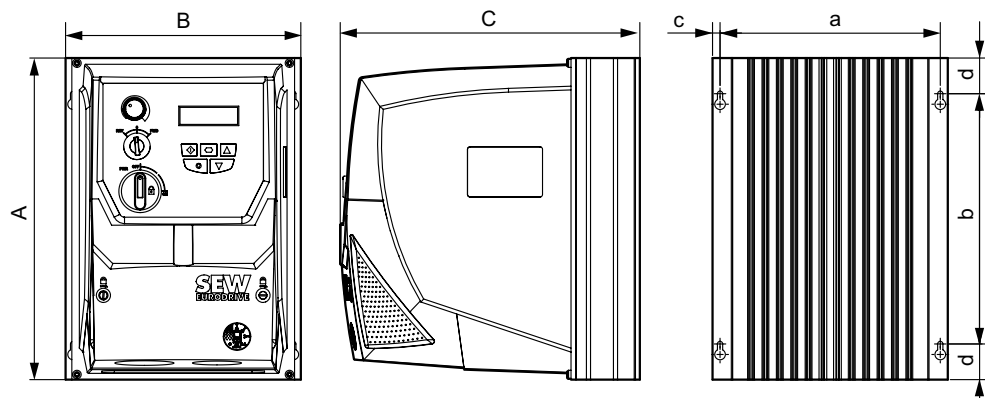
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Dimension		Size 2	Size 3
A (Height)	mm	220	261
	in	8.66	10.28
B (Width)	mm	110	132
	in	4.33	5.20
C (Depth)	mm	185	205
	in	7.28	8.07
Weight	kg	1.8	3.5
	lb	3.97	7.72
a	mm	63.0	80.0
	in	2.48	3.15
b	mm	209.0	247
	in	8.23	9.72
c	mm	23	25.5
	in	0.91	1.01
d	mm	7.00	7.75
	in	0.28	0.30
Power terminal torque settings	Nm	1.0	1.0
	lb.in	8.85	8.85
Recommended screw size		4 × M4	4 × M4



1.8.2 Dimensions of the IP55 / NEMA 12 housing (LTP xxx –10)

Sizes 2 and 3



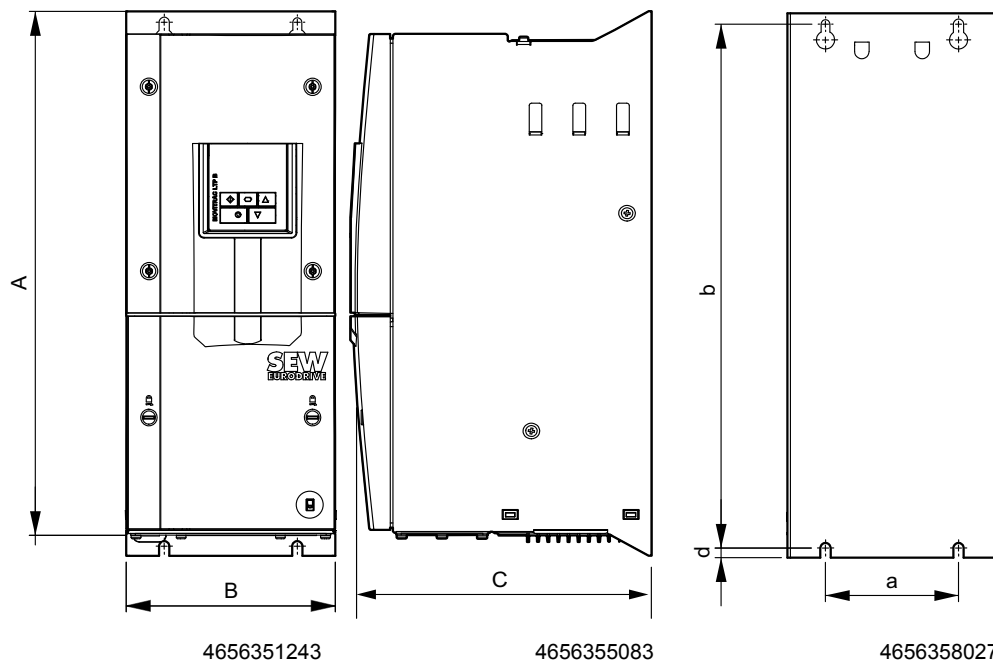
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Dimension		Size 2	Size 3
Height (A)	mm	257	310
	in	10.12	12.20
Width (B)	mm	188	210.5
	in	7.40	8.29
Depth (C)	mm	239	251
	in	9.41	2.88
Weight	kg	4.8	6.4
	lb	10.5	14.1
a	mm	176	197.5
	in	6.93	7.78
b	mm	200	251.5
	in	7.87	9.90
c	mm	6	6.5
	in	0.24	0.26
d	mm	28.5	25.1
	in	1.12	0.99
Power terminal torque settings	Nm	1	
	lb.in	8.85	
Control terminal torque settings	Nm	0.8	0.8
	lb.in	7.08	7.08
Recommended screw size		4 × M5	



General Specifications for MOVITRAC® LTP-B Dimensions

Sizes 4 – 7



Dimension		Size 4	Size 5	Size 6	Size 7
Height (A)	mm	440	540	865	1280
	in	17.32	21.26	34.06	50.39
Width (B)	mm	171	235	330	330
	in	6.73	9.25	12.99	12.99
Depth (C)	mm	235	268	335	365
	in	9.25	10.55	13.19	14.37
Weight	kg	11.5	22.5	50	80
	lb	25.35	49.60	110.23	176.37
a	mm	110	175	200	200
	in	4.33	6.89	7.87	7.87
b	mm	423	520	840	1255
	in	16.65	20.47	33.07	49.41
c	mm	61	60	130	130
	in	2.40	2.36	5.12	5.12
d	mm	8	8	10	10
	in	0.32	0.32	0.39	0.39
Power terminal torque settings	Nm	1.2 – 1.5	2.5 – 4.5	8	
	lb.in	10.6 – 13.3	22.1 – 39.8	70.8	
Control terminal torque settings	Nm	0.8	0.8	0.8	0.8
	lb.in	7.08	7.08	7.08	7.08
Recommended screw size		4 × M8		4 × M10	



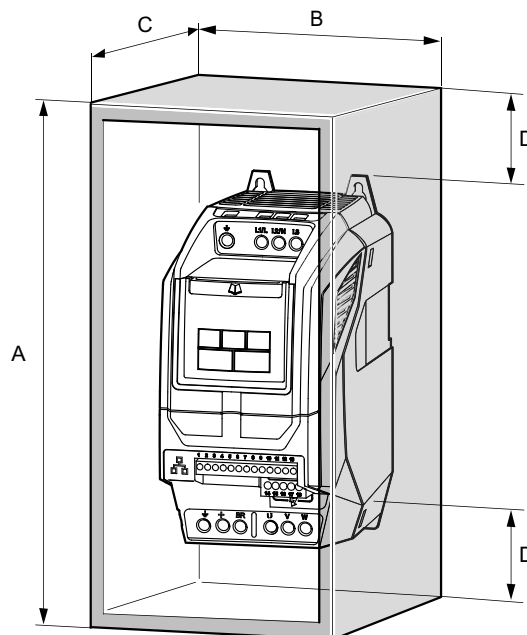
1.9 IP20 housing: Mounting and dimensions of control cabinet

For applications that require a higher IP rating than the IP20 offered by the standard housing, the drive must be mounted in a control cabinet. The following guidelines should be observed for these applications:

- The control cabinet should be made from a thermally conductive material, unless forced ventilation is used.
- When a vented control cabinet is used, there should be venting above and below the drive to ensure good air circulation. Air should be drawn in below the drive and expelled above the drive.
- If the external environment contains contamination particles (e.g. dust), a suitable particle filter should be fitted to the vents and forced ventilation implemented. The filter must be serviced and cleaned as and when necessary.
- Environments with a high moisture, salt or chemical content should use a suitably sealed (non-vented) control cabinet.

1.9.1 Dimensions of non-vented metal control cabinet

Drive power rating		Sealed control cabinet							
		A		B		C		D	
		mm	in	mm	in	mm	in	mm	in
Size 2	0.75 kW, 1.5 kW 230 V 0.75 kW, 1.5 kW, 2.2 kW 400 V	400	15.75	300	11.81	350	11.81	60	2.36
Size 2	2.2 kW 230 V 4.0 kW 400 V	600	23.62	450	17.72	350	11.81	100	3.94



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General Specifications for MOVITRAC® LTP-B

IP20 housing: Mounting and dimensions of control cabinet

1.9.2 Dimensions of vented control cabinet

Drive power rating		Vented control cabinet							
		A		B		C		D	
		mm	in	mm	in	mm	in	mm	in
Size 2	All ratings	600	23.62	400	15.75	300	11.81	100	3.94
Size 3	All ratings	800	31.5	600	23.62	350	13.78	150	5.91
Size 4	All ratings	1000	39.37	600	23.62	300	11.81	250	9.84
Size 5	All ratings	1000	–	–	–	–	–	–	–
Size 6	All ratings	1000	–	–	–	–	–	–	–
Size 7	All ratings	1000	–	–	–	–	–	–	–

1.9.3 Dimensions of force-vented control cabinet

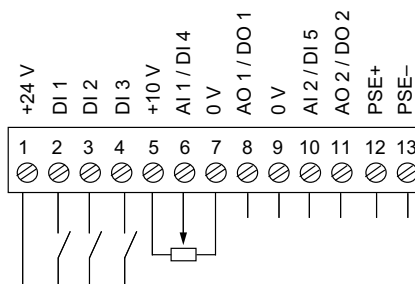
Drive power rating		Force-vented control cabinet (with fan)								
		A		B		C		D		Air Flow
		mm	in	mm	in	mm	in	mm	in	
Size 2	All ratings	400	15.75	300	11.81	250	9.84	100	3.94	> 45 m ³ /h
Size 3	All ratings	600	23.62	400	15.75	250	9.84	150	5.91	> 80 m ³ /h
Size 4	All ratings	880	34.65	500	19.69	300	11.81	200	7.87	> 300 m ³ /h
Size 5	All ratings	1100	43.31	600	23.62	400	15.75	250	9.84	> 900 m ³ /h
Size 6 / 7	All ratings	1900	74.80	600	23.62	500	19.69	300	11.81	> 1000 m ³ /h



1.10 Signal terminal overview

1.10.1 Main terminals

IP20 and IP55



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The signal terminal block has the following signal connections:

Terminal no.	Signal	Connection	Description
1	+24 V	+24 V ref out	Ref. to activate DI1 – DI3 (100 mA max.)
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 when 0 V is connected to terminal 7 or 9.
5	+10 V	+10 V ref out	10 V ref for analog input (pot supply +, 10 mA max., 1 kΩ min.)
6	AI 1 / DI 4	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 common	0 V ref (pot supply –)
8	AO 1 / DO 1	Analog output (10 bit) Digital output 1	0 – 10 V, 20 mA analog 24 V, 20 mA digital
9	0 V	0 V common	0 V ref
10	AI 2 / DI 5	Analog input 2 (12 bit) Digital input 5	0 – 10 V, 0 – 20 mA, 4 – 20 mA "Logic 1" input voltage range: DC 8 – 30 V
11	AO 2 / DO 2	Analog output 2 (10 bit) Digital output 2	0 – 10 V, 20 mA analog 24 V, 20 mA digital
12	PSE+	Power stage enable	+24 V must be connected to PSE+
13	PSE–		GND must be connected to PSE–

All digital inputs activated by input voltage in range 8 – 30 V, i.e. +24 V compatible.

- **NOTICE** Possible damage to property.

Voltages greater than 30 V applied to the signal terminals may result in damage to the controller.

- Only apply voltages up to 30 V to the signal terminals.

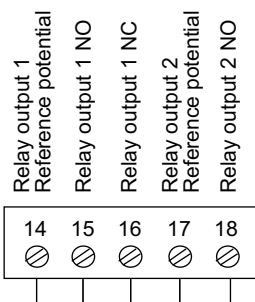
- **INFORMATION**

Terminals 7 and 9 can be used for GND reference if MOVITRAC® LTP-B is controlled via PLC. Connect ±PSE to +24 V and GND to enable power stage, otherwise the drive display shows "Inhibt".



General Specifications for MOVITRAC® LTP-B RJ45 communication socket

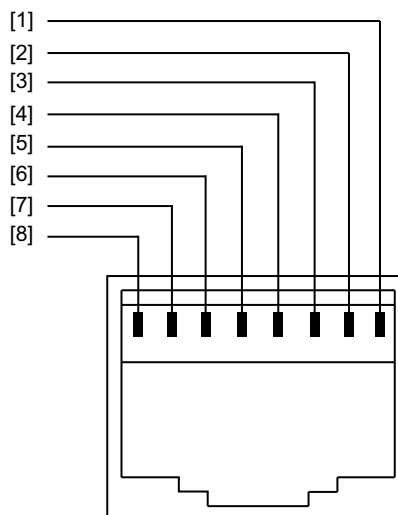
1.10.2 Relay terminal overview



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Terminal no.	Signal	Description
14	Relay output 1 common	Relay contact (AC 250 V / DC 30 V @ 5 A)
15	Relay output 1 NO	
16	Relay output 1 NC	
17	Relay output 2 common	
18	Relay output 2 NO	

1.11 RJ45 communication socket



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- [1] RS485+ (Modbus)
- [2] RS485- (Modbus)
- [3] +24 V
- [4] RS485+ (engineering)
- [5] RS485- (engineering)
- [6] 0 V
- [7] SBus+ (*P1-12* must be set for SBus communication)
- [8] SBus- (*P1-12* must be set for SBus communication)



1.12 User interface

1.12.1 Keypad

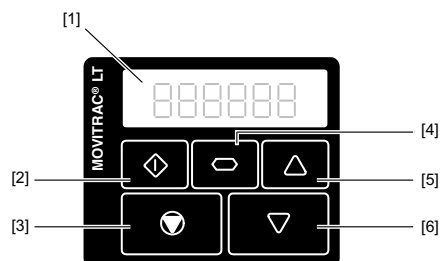
Each MOVITRAC® LTP-B has an integrated keypad as standard, allowing drive operation and setup without any additional equipment.

The keypad consists of 5 keys with the following functions:

Start (Run)	<ul style="list-style-type: none"> Enables the running of the motor Reverses the direction of rotation if bi-directional keypad mode is enabled
Stop/Reset	<ul style="list-style-type: none"> Stops the motor Resets a tripped drive
Navigate	<ul style="list-style-type: none"> Displays real time information Press and hold to enter / exit parameter edit mode Stores parameter changes
Up	<ul style="list-style-type: none"> Increases speed in real time mode Increases parameter values in parameter edit mode
Down	<ul style="list-style-type: none"> Decreases speed in real time mode Decreases parameter values in parameter edit mode

The <start> / <stop/reset> keys on the keypad are disabled when the parameters have their factory default settings. To enable the operation of the <start> / <stop/reset> keys on the keypad, set *P1-12* to 1 or 2.

The <navigate> key alone is used to gain access to the parameter edit menu. Pressing and holding this key (> 1 sec) allows the user to toggle between the parameter edit menu and the real time display (where the drive operating status / running speed is displayed). By pressing this key (< 1 sec) the user is able to toggle between the operating speed and operating current during drive operation.



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- | | |
|------------------|--------------|
| [1] Display | [4] Navigate |
| [2] Start | [5] Up |
| [3] Stop / Reset | [6] Down |

• INFORMATION

To reset the drive to factory default settings, press the <up>, <down>, and <stop/reset> keys simultaneously for > 2 s. The display then shows "P-deF".

Press the <stop/reset> key to acknowledge the change and reset the drive.

1.12.2 Display

A standard 6-digit, 7-segment display is integrated into each drive to allow drive operation to be monitored and parameters to be set.



2 Accessories

2.1 Braking resistors

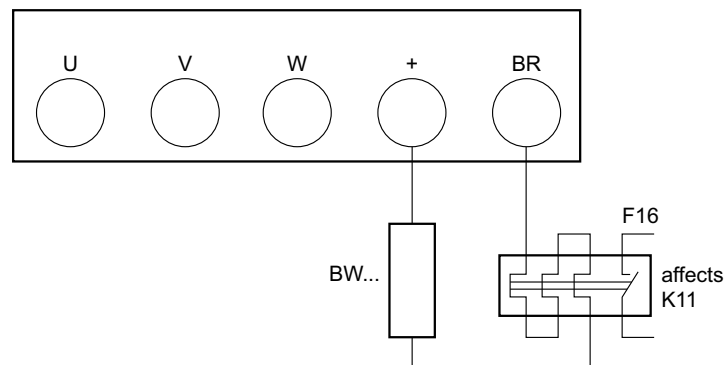
2.1.1 Braking resistor circuit

MOVITRAC® LTP-B units have a built-in braking resistor which can be used with an external braking resistor to convert re-generated energy from the motor into thermal energy. This braking circuit is generally needed for applications with a fast deceleration ramp or with a high inertia load.

SEW-EURODRIVE also recommends protecting wire and grid resistors against overload using a bimetallic relay as shown below. The relay output must disconnect the supply voltage to the MOVITRAC® LTP-B unit. It **must not** interrupt the connection from the braking resistor to the MOVITRAC® LTP-B unit.

With the braking resistors BW LT 100 002, SEW-EURODRIVE flat-type braking resistors and any other overload protected braking resistors, the bimetallic relay is not required.

The illustration below shows the wiring diagram for the braking resistor connection.



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2.1.2 Minimum braking resistor values

MOVITRAC® LTP-B	230 V	400 V
Size 2	27 Ω	100 Ω
Size 3	27 Ω	47 Ω
Size 4	12 Ω	22 Ω
Size 5	6 Ω	12 Ω
Size 6	3 Ω	6 Ω
Size 7	3 Ω	6 Ω

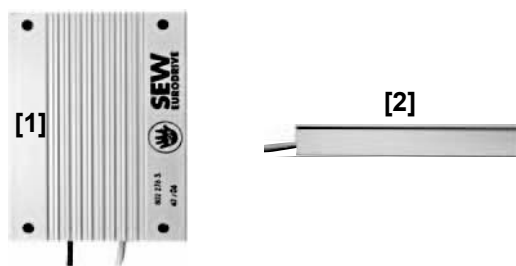


2.1.3 Flat design braking resistors IP54

The flat-design resistors have degree of protection IP54 and are equipped with internal thermal overload protection (cannot be replaced). Depending on their type, you can install the resistors as follows:

- With support rail mounting FHS or submounting FKB under the heat sink. The braking resistors in the submounting do not achieve the specified cdf power. The FHS and FKB options are only suitable for the BW027-003 and BW072-003 braking resistors.
- Attach to a mounting rail using a BS touch guard.

Caution: The load capacity applies for a horizontal mounting position [2]. Values are reduced by 10 % for a vertical mounting position [1].



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Braking resistor type	BW047-003	BW047-005	BW072-003	BW072-005	BW100-005
Part number	826 265 9	826 268 3	826 058 3	826 060 5	826 269 1
100 % cdf	250 W	450 W	230 W	450 W	450 W
50 % cdf	330 W	610 W	310 W	610 W	610 W
25 % cdf	430 W	840 W	420 W	840 W	840 W
12 % cdf	580 W	1200 W	580 W	1200 W	1200 W
6 % cdf	1050 W	2360 W	1000 W	2360 W	2360 W
Resistance value R_{BW}	47 Ω \pm 10 %		72 Ω \pm 10 %		100 Ω \pm 10 %
Trip current I_F	0.8 A	1.2 A	0.6 A	1.0 A	0.8 A
Ambient temperature ϑ_A	-20 °C to 45 °C				



2.1.4 Wire and grid resistors IP20

- Perforated sheet cover (IP20) open towards the mounting surface
- The short-time load capacity of the wire and grid resistors is greater than in the flat-type braking resistors

SEW-EURODRIVE recommends also protecting the wire and grid resistors against overload using a bimetallic relay. Set the trip current to the value I_F in the table. Do not use any electronic or electromagnetic fuses since even the brief excess currents which are still permitted may cause them to trip.

The surfaces of the resistors get very hot if loaded with P_N . Bear this aspect in mind when selecting the installation location. Braking resistors are therefore mounted on the control cabinet roof.

Assignment to AC 230 V units

Braking resistor type BW...	BW027-006	BW027-012		
Part number	822 422 6	822 423 4		
Braking resistor type BW...-T/-P			BW018-015-P	BW018-035-T
Part number			1820 416 3	1820 138 5
Continuous braking power (100 % cdf)	0.6 kW	1.2 kW	1.5 kW	3.5 kW
Load capacity at 50 % cdf ¹⁾	1.1 kW	2.1 kW	2.5 kW	5.9 kW
at 25 % cdf	1.9 kW	3.8 kW	4.5 kW	10.5 kW
12 % cdf	3.6 kW	7.2 kW	6.7 kW	13.0 kW ²⁾
6 % cdf	5.7 kW	8.7 kW ²⁾	11.4 kW	13.0 kW ²⁾
Observe regenerative power limit of the inverter! (= 150 % of the recommended motor power → technical data)				
Resistance value R_{BW}	27 Ω \pm 10 %		18 Ω \pm 10 %	
Trip current (of F16) I_F	4.7 A _{RMS}	6.6 A _{RMS}	9.1 A _{RMS}	13.9 A _{RMS}
Design	Wire resistor		Grid resistor	
Connections / tightening torque	Ceramic terminals 2.5 mm ² (AWG14) / 0.5 Nm			M8 stud / 6 Nm
Degree of protection	IP20 (when installed)			
Ambient temperature ϑ_A	-20 °C to +40 °C			
Type of cooling	KS = Self-cooling			

1) cdf = Cyclic duration factor of the braking resistor in relation to a cycle duration $T_D \leq 120$ s.

2) Physical power limit due to DC link voltage and resistance value



Braking resistor type BW...-T/-P	BW018-075-T	BW012-025-P	BW012-050-T	BW012-100-T	BW106-T	BW206-T
Part number	1820 139 3	1820 414 7	1820 140 7	1820141 5	1820 083 4	1820 412 0
Continuous braking power (100 % cdf)	7.5 kW	2.5 kW	5.0 kW	10 kW	13.5 kW	18 kW
Load capacity 50 % cdf ¹⁾	12.7 kW	4.2 kW	8.5 kW	17 kW	23 kW	30.6 kW
at 25 % cdf	13.0 kW ²⁾	7.5 kW	15.0 kW	19.6 kW ²⁾	39.2 kW ²⁾	39.2 kW ²⁾
12 % cdf	13.0 kW ²⁾	11.2 kW	19.6 kW ²⁾	19.6 kW ²⁾	39.2 kW ²⁾	39.2 kW ²⁾
6 % cdf	13.0 kW ²⁾	19.0 kW	19.6 kW ²⁾	19.6 kW ²⁾	39.2 kW ²⁾	39.2 kW ²⁾
Observe regenerative power limit of the inverter! (= 150 % of the recommended motor power → technical data)						
Resistance value R _{BW}	18 Ω ±10 %	12 Ω ±10 %			6 Ω ±10 %	
Trip current (of F16) I _F	20.4 A _{RMS}	14.4 A _{RMS}	20.4 A _{RMS}	28.8 A _{RMS}	47.4 A _{RMS}	54.7 A _{RMS}
Design	Grid resistor					
Connections / tightening torque	M8 stud / 6 Nm					
Degree of protection	IP20 (when installed)					
Ambient temperature ϑ _A	-20 °C to +40 °C					
Type of cooling	KS = Self-cooling					

1) cdf = Cyclic duration factor of the braking resistor in relation to a cycle duration T_D ≤ 120 s.

2) Physical power limit due to DC link voltage and resistance value.

Assignment to AC 400 – 575 V units

Braking resistor type BW...	BW147	BW247	BW347	BW039-012		
Part number	820 713 5	820 714 3	820 798 4	821 689 4		
Braking resistor type BW...-T	BW147-T	BW247-T	BW347-T	BW039-012-T	BW039-026-T	BW039-050-T
Part number	1820 134 2	1820 084 2	1820 135 0	1820 136 9	1820 415 5	1820 137 7
Continuous braking power (100% cdf)	1.2 kW	2.0 kW	4.0 kW	1.2 kW	2.6 kW	5.0 kW
Load capacity 50 % cdf ¹⁾	2.2 kW	3.6 kW	7.2 kW	2.1 kW	4.7 kW	8.5 kW
at 25 % cdf	3.8 kW	6.4 kW	12.8 kW	3.8 kW	8.3 kW	15.0 kW
12 % cdf	7.2 kW	12 kW	20 kW ²⁾	7.2 kW	15.6 kW	24.0 kW ²⁾
6 % cdf	11 kW	19 kW	20 kW ²⁾	11.4 kW	24.0 kW ²⁾	24.0 kW ²⁾
Observe regenerative power limit of the inverter! (= 150 % of the recommended motor power → technical data)						
Resistance value R _{BW}	47 Ω ±10 %			39 Ω ±10 %		
Trip current (of F16) I _F	5 A _{RMS}	6.5 A _{RMS}	9.2 A _{RMS}	5.5 A _{RMS}	8.1 A _{RMS}	11.3 A _{RMS}
Design	Wire resistor on ceramic core					Grid resistor
Connections / tightening torque	Ceramic terminals 2.5 mm ² (AWG14) / 0.5 Nm BW347-T: Ceramic terminals 10 mm ² (AWG8) / 1.6 Nm					M8 stud / 6 Nm
Degree of protection	IP20 (when installed)					
Ambient temperature ϑ _A	-20 °C to +40 °C					
Type of cooling	KS = Self-cooling					

1) cdf = Cyclic duration factor of the braking resistor in relation to a cycle duration T_D ≤ 120 s.

2) Physical power limit due to DC link voltage and resistance value.



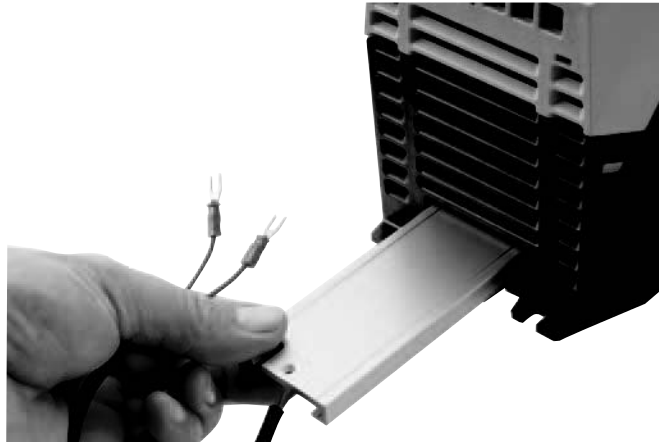
Braking resistor type BW...-	BW012-025				
Part number	821 680 0				
Braking resistor type BW...-T/-P	BW012-025-P	BW012-050T	BW012-100-T	BW106-T	BW206-T
Part number	1820 414 7	1820 140 7	1820 141 5	1820 083 4	1820 412 0
Continuous braking power (100 cdf)	2.5 kW	5.0 kW	10 kW	13.5 kW	18 kW
Load capacity 50 % cdf ¹⁾	4.2 kW	8.5 kW	17 kW	23 kW	30.6 kW
at 25 % cdf	7.5 kW	15.0 kW	30 kW	40 kW	54 kW
12 % cdf	11.2 kW	22.5 kW	45 kW	61 kW	81 kW
6 % cdf	19.0 kW	38.0 kW	76 kW	102 kW	136.8 kW
Observe regenerative power limit of the inverter! (= 150 % of the recommended motor power → technical data)					
Resistance value R_{BW}	12 Ω \pm 10 %			6 Ω \pm 10 %	
Trip current (of F16) I_F	14.4 A _{RMS}	20.4 A _{RMS}	28.8 A _{RMS}	47.4 A _{RMS}	54.7 A _{RMS}
Design	Grid resistor				
Connections / tightening torque	Ceramic terminals 2.5 mm ² (AWG14) / 0.5 Nm BW012-025-P: Terminals 4 mm ² (AWG12) / 1 Nm			Bolt M8 / 6 Nm	
Degree of protection	IP20 (when installed)				
Ambient temperature ϑ_A	-20 °C to +40 °C				
Type of cooling	KS = Self-cooling				

1) cdf = Cyclic duration factor of the braking resistor in relation to a cycle duration $T_D \leq 120$ s.

Technical data of the braking resistor BW...-T / BW...-P

BW...-T / BW...-P	
Connection cross section for signal contact	1 × 2.5 mm ²
Switching capability of the thermostat's signal contact	<ul style="list-style-type: none"> • DC 2 A / DC 24 V (DC11) • AC 2 A / AC 230 V (AC11)
Switch contact (NC)	According to EN 61800-5-1

2.1.5 Flat-pack resistor



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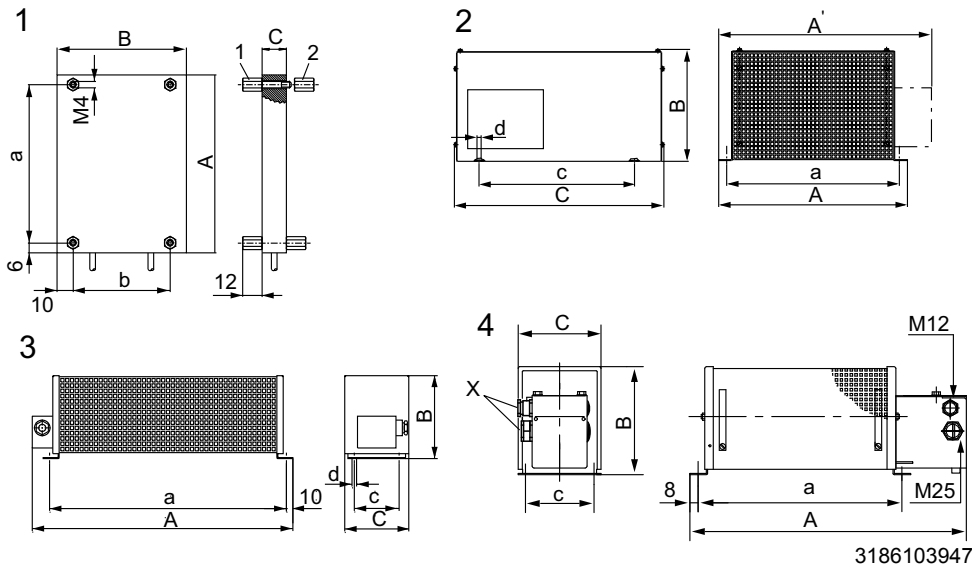
A special flat-pack resistor is available for MOVITRAC® LTP-B:

- Can be mounted inside the drive.
- No additional space is required.
- Suitable for all MOVITRAC® LTP-B units with low inertia applications.

Braking resistor type	IP20 Resistor BW LT 100 002
Part number	1821 8770
Load capacity at:	
• continuous duty	200 W
• 0.125 s	12 kW
Resistance value	100
For MOVITRAC® LTP-B . . .	Sizes 2 & 3



2.1.6 Dimension drawing of braking resistors BW... / BW...-T / BW...-P



BW... :

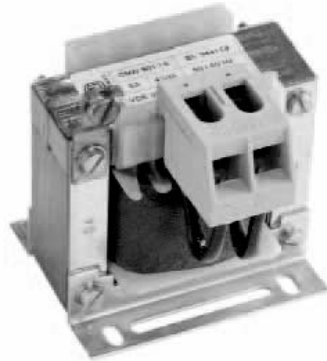
- 1 = Flat design
The connecting lead is 500 mm (19.7 in) long.
The scope of delivery includes four M4 stud bolts each of type 1 and 2.
- 2 = Grid resistor
- 3 = Wire resistor
- 4 = Wire resistor with temperature switch (-T/-P)
Cable entry (X) is possible from both sides.

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Type BW...	Mounting position	Main dimensions mm (in)			Fastening parts mm (in)			Cable gland	Weight kg (lb)
		A/A'	B	C	a	b/c	d		
BW...-T/ BW...-P									
BW106-T	2	795 (31.3)	270 (10.6)	490 (19.3)	770 (30.3)	380 (15)	10.5 (0.41)	-	32 (71)
BW206-T	2	995 (39.2)	270 (10.6)	490 (19.3)	970 (38.2)	380 (15)	10.5 (0.41)	-	40 (88)
BW012-025	2	295 (11.6)	260 (10.2)	490 (19.3)	270 (10.6)	380 (15)	10.5 (0.41)	M12 + M25	8.0 (18)
BW012-025-P	2	295/355 (11.6/14)	260 (10.2)	490 (19.3)	270 (10.6)	380 (15)	10.5 (0.41)	M12 + M25	8.0 (18)
BW012-050-T	2	395 (15.6)	260 (10.2)	490 (19.3)	370 (14.6)	380 (15)	10.5 (0.41)	-	12 (26)
BW012-100-T	2	595 (23.4)	270 (10.6)	490 (19.3)	570 (22.4)	380 (15)	10.5 (0.41)	-	21 (46)
BW027-006	3	486 (19.1)	120 (4.72)	92 (3.6)	430 (16.9)	64 (2.5)	6.5 (0.26)	PG11	2.2 (4.9)
BW027-012	3	486 (19.1)	120 (4.72)	185 (7.28)	426 (16.8)	150 (5.91)	6.5 (0.26)	PG11	4.3 (9.5)
BW039-003	3	286 (11.3)	120 (4.72)	92 (3.6)	230 (9.06)	64 (2.5)	6.5 (0.26)	PG11	1.5 (3.3)
BW039-006	3	486 (19.1)	120 (4.72)	92 (3.6)	430 (16.9)	64 (2.5)	6.5 (0.26)	PG11	2.2 (4.9)
BW039-012	3	486 (19.1)	120 (4.72)	185 (7.28)	426 (16.8)	150 (5.91)	6.5 (0.26)	PG11	4.3 (9.5)
BW039-012-T	4	549 (21.6)	120 (4.72)	185 (7.28)	426 (16.8)	150 (5.91)	6.5 (0.26)	M12 + M25	4.9 (11)
BW039-026-T	4	649 (25.6)	120 (4.72)	275 (10.8)	530 (20.9)	240 (9.45)	6.5 (0.26)	M12 + M25	7.5 (17)
BW039-050-T	2	395 (15.6)	260 (10.2)	490 (19.3)	370 (14.6)	380 (15)	10.5 (0.41)	-	12 (26)
BW147	3	465 (18.3)	120 (4.72)	185 (7.28)	426 (16.8)	150 (5.91)	6.5 (0.26)	PG13.5	4.3 (9.5)
BW147-T	4	549 (21.6)	120 (4.72)	185 (7.28)	426 (16.8)	150 (5.91)	6.5 (0.26)	M12 + M25	4.9 (11)
BW247	3	665 (26.2)	120 (4.72)	185 (7.28)	626 (24.6)	150 (5.91)	6.5 (0.26)	PG13.5	6.1 (13)
BW247-T	4	749 (29.5)	120 (4.72)	185 (7.28)	626 (24.6)	150 (5.91)	6.5 (0.26)	M12 + M25	9.2 (20)
BW347	3	670 (26.4)	145 (5.71)	340 (13.4)	630 (24.8)	300 (11.8)	6.5 (0.26)	PG13.5	13.2 (29.1)
BW347-T	4	749 (29.5)	210 (8.27)	185 (7.28)	630 (24.8)	150 (5.91)	6.5 (0.26)	M12 + M25	12.4 (27.3)
BW168	3	365 (14.4)	120 (4.72)	185 (7.28)	326 (12.8)	150 (5.91)	6.5 (0.26)	PG13.5	3.5 (7.7)
BW168-T	4	449 (17.7)	120 (4.72)	185 (7.28)	326 (12.8)	150 (5.91)	6.5 (0.26)	M12 + M25	3.6 (7.9)
BW268	3	465 (18.3)	120 (4.72)	185 (7.28)	426 (16.8)	150 (5.91)	6.5 (0.26)	PG13.5	4.3 (9.5)
BW268-T	4	549 (21.6)	120 (4.72)	185 (7.28)	426 (16.8)	150 (5.91)	6.5 (0.26)	M12 + M25	4.9 (11)
BW072-003	1	110 (4.33)	80 (3.1)	15 (0.59)	98 (3.9)	60 (2.4)	-	-	0.3 (0.7)
BW072-005	1	216 (8.5)	80 (3.1)	15 (0.59)	204 (8.03)	60 (2.4)	-	-	0.6 (1)
BW100-005	1	216 (8.5)	80 (3.1)	15 (0.59)	204 (8.03)	60 (2.4)	-	-	0.6 (1)
BW100-006	4	486 (19.1)	120 (4.72)	92 (3.6)	430 (16.9)	64 (2.5)	6.5 (0.26)	PG11	2.2 (4.9)
BW100-006-T	4	549 (21.6)	120 (4.72)	92 (3.6)	430 (16.9)	80 (3.1)	6.5 (0.26)	M12 + M25	3.0 (6.6)

2.2 Line chokes

Line chokes reduce supply harmonic distortion and protect MOVITRAC® LTP-B units against harmful supply disturbances. They are also used to reduce the effects of the MOVITRAC® LTP-B upon supply harmonic distortion.



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Line chokes are also used to protect the power input circuits of the MOVITRAC® LTP-B against voltage spikes which might originate from lightning strikes or other equipment on the same supply.

If several units are switched on by a supply system contactor at the same time, their inrush currents are added together. The cause of the inrush current is the charging of the DC link capacitor. Especially in the case of small supply system contactors, an excessive inrush current can lead to sticking or welding of the contacts. A line choke can reduce the inrush current considerably.

The following units have built-in DC chokes and therefore do not require an external choke:

- 240 V, sizes 4 – 7
- 480 V, sizes 4 – 7

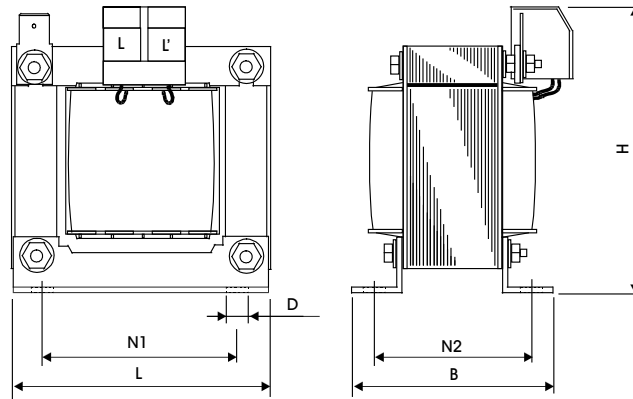

2.2.1 Technical data

Type	ND LT 010 290 21	ND LT 025 110 21	ND LT 006 480 53	ND LT 010 290 53	ND LT 036 081 53
Part number	1820 1644	1820 1652	1820 1660	1820 1679	1820 1687
Rated voltage	1 × AC 230 V		3 × AC 230 – 400 V		
Rated current A	10	25	6	10	36
Inductance mH	2.9	1.1	4.8	2.9	0.81
IP protection	IP00				
Mass kg / lb	0.8 / 1.76	1.8 / 3.97	1.3 / 2.87	2.5 / 5.51	7.2 / 15.87
Assignment for AC 400 V	–	–	0008 / 0015	0022	0040 – 0110
Assignment for AC 230 V	0008 / 0015	0022	0008	0015	0022 – 0055

Type	ND LT 016 183 21-55	ND LT 025 117 21-55	ND LT 006 613 63-55	ND LT 010 386 63-55	ND LT 020 183 63-55
Part number	1821 7680	1821 7699	1821 7702	1821 7710	1821 7729
Rated voltage	1 × AC 230 V		3 × AC 230 – 400 V		
Rated current A	16	25	6	10	18
Inductance mH	1.83	1.17	4.8	3.86	2.04
IP protection	IP55				
Mass kg / lb	1.0 / 2.20	1.3 / 2.87	1.6 / 3.53	3.5 / 7.72	7 / 15.43
Assignment for AC 400 V A	–	–	0008 / 0015 2.2 / 4.1	0022 5.8	0040 – 0075 9.5 / 18
Assignment for AC 230 V A	0008 / 0015 4.3 / 7.0	0022 10.5	0008 4.3	0015 7.0	0022 – 0040 10.5 – 18



2.2.2 Dimensions



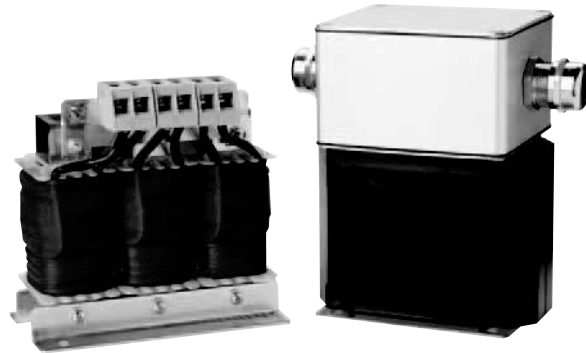
3186113675

Type	L		B		H		N1		N2		D	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
ND LT 010 290 21	66	2.60	80	3.15	70	2.76	50	1.97	51	2.00	5 × 8	0.2 × 0.31
ND LT 025 110 21	85	3.35	95	3.74	95	3.74	64	2.52	59	2.32	5 × 8	0.2 × 0.31
ND LT 006 480 53	95	3.74	56	2.20	107	4.21	56	2.20	43	1.69	5 × 9	0.2 × 0.35
ND LT 010 290 53	125	4.92	71	2.80	127	5.00	100	3.94	55	2.17	5 × 8	0.2 × 0.31
ND LT 036 081 53	155	6.10	77	3.03	185	7.28	130	5.12	72	2.83	8 × 12	0.3 × 0.47
ND LT 016 183 21-55	82	3.23	70	2.76	70	2.76	70	2.76	58	2.28	6	0.24
ND LT 025 117 21-55	90	3.54	84	3.31	75	2.95	84	3.31	72	2.84	6	0.24
ND LT 006 613 63-55	115	4.53	74	2.91	88	3.46	80	3.15	60	2.36	5.5 × 7	0.22 × 0.28
ND LT 010 386 63-55	175	6.89	99	3.90	137	5.39	130	5.12	79	3.11	5.5 × 12	0.22 × 0.47
ND LT 020 183 63-55	175	6.89	114	4.49	137	5.39	130	5.12	94	3.70	5.5 × 12	0.22 × 0.47



2.3 Output chokes

Output chokes improve the quality of the output waveform. Therefore the maximum cable length stated in the rating table can be doubled when using an output choke.



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MOVITRAC[®] LTP-B units, like the majority of other inverter drives, have unfiltered outputs. In the majority of applications this will give satisfactory performance, however, in a small number of applications output filtering is strongly recommended to improve system functionality, reliability and longevity. These applications include:

- Long motor cables, up to 300 m (the rated cable length can be doubled if an output choke is used)
- High capacitance motor cables (i.e. typical "pyro" wire, used for fire protection)
- Multiple motors connected in parallel
- Motors without inverter grade insulation (typically older motors)

A range of high quality output chokes are available for MOVITRAC[®] LTP-B with the following key features:

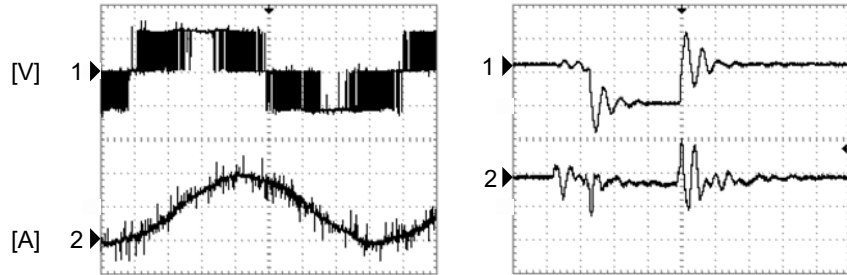
- Limits output voltage gradient, typically <math><200\text{ V}/\mu\text{s}</math>
- Limits transient over voltages at the motor terminals, typically <math><1000\text{ V}</math>
- Suppression of supply system-conducted interference in lower frequency ranges
- Compensation of capacitive load currents
- Reduction of RFI emissions from the motor cable
- Reduction of motor losses and audible noise caused by ripple



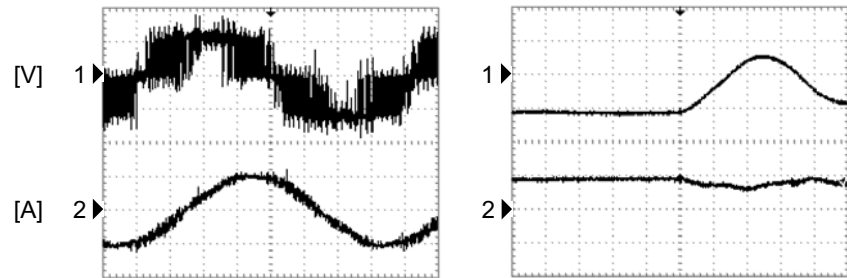
2.3.1 Technical data

Type	HD LT 008 200 53	HD LT 012 130 53	HD LT 030 050 53	HD LT 075 022 53	HD LT 180 009 53
Part number	1820 1695	1820 1709	1820 1717	1820 1725	1820 1733
Rated voltage	3 × AC 200 – 600 V				
Rated current A	8	12	18	75	180
Inductance mH	2	1.3	0.5	0.22	0.09
IP protection	IP00				
Mass kg / lb	1.5 / 3.31	2.8 / 6.17	4.2 / 9.26	11 / 24.25	35 / 77.16
Assignment for AC 400 V	0008 – 0022	0040	0055 / 0075	0110 – 0370	0450 – 0900
A	2.2 – 5.8	9.5	14 / 18	25 – 72	90 – 180
Assignment for AC 230 V	0008 / 0015	0022	0040	0055 – 0185	0220 – 0450
A	4.3 / 7.0	10.5	18	25 – 79.6	92.3 – 176.5

Type	HD LT 250 007 53	HD LT 300 530 53	HD LT 300 200 63-55	HD LT 012 120 63-55	HD LT 018 090 63-55
Part number	1820 1741	1840 1833	1821 6757	1821 6765	1821 6773
Rated voltage	3 × AC 200 – 600 V				
Rated current A	250	300	8	12	18
Inductance mH	0.065	0.053	2	1.2	0.9
IP protection	IP00		IP55		
Mass kg / lb	35 / 77.16	48 / 105.82	1.7 / 3.75	3.2 / 7.05	3.2 / 7.05
Assignment for AC 400 V	1100 – 1320	1600	0008 – 0022	0040	0055 / 0075
A	202 – 240	300	2.2 – 5.8	9.5	14 / 18
Assignment for AC 230 V	0550	0750 / 0900	0008 / 0015	0022	0040
A	211	259 / 314	4.3 / 7	10.5	18


Comparison of output voltage and current characteristics
Without choke


3186120075

With choke


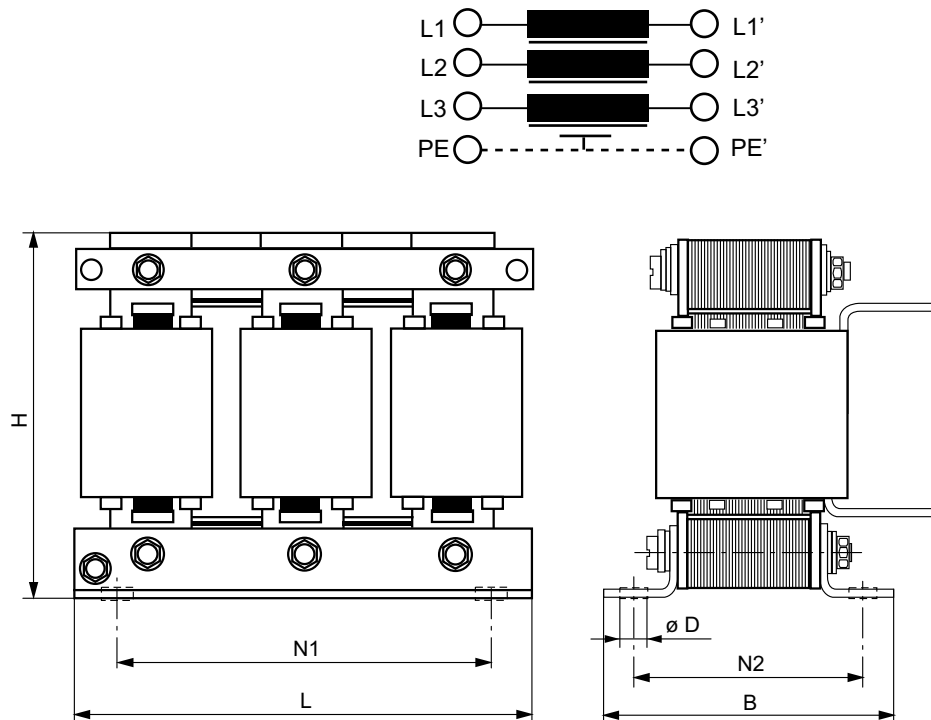
3186121739

- **INFORMATION**

With a filter fitted, the switching pulse rises slower and to a lower amplitude.



2.3.2 Dimensions



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Type	L		B		H		N1		N2		Ø D	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
HD LT 008 200 53	95	3.74	61	2.40	107	4.21	56	2.20	43	1.69	4	0.16
HD LT 012 130 53	125	4.92	76	2.99	158	6.22	100	3.94	55	2.17	5	0.20
HD LT 030 050 53	155	6.10	66	2.60	185	7.28	130	5.12	57	2.24	8	0.32
HD LT 075 022 53	190	7.48	102	4.02	223	8.78	170	6.69	78	3.07	8	0.32
HD LT 180 009 53	310	12.20	180	7.09	260	10.24	224	8.82	117	4.61	10 × 18	0.39 × 0.71
HD LT 250 007 53	310	12.20	180	7.09	260	10.24	224	8.82	117	4.61	10 × 18	0.39 × 0.71
HD LT 300 530 53	380	14.96	180	7.09	310	12.20	248	9.76	139	5.47	10 × 18	0.39 × 0.71
HD LT 008 200 63 55	115	4.53	74	2.91	85	3.35	80	3.15	60	2.36	5.5 × 7	0.22 × 0.28
HD LT 012 120 63 55	140	5.51	87	3.43	110	4.33	100	3.94	70	2.76	5.5 × 7	0.22 × 0.28
HD LT 018 090 63 55	140	5.51	87	3.43	110	4.33	100	3.94	70	2.76	5.5 × 7	0.22 × 0.28



2.4 Remote keypad option LT BG-C

Type	Part number
LT BG-C	1824 1522

The basic variant of the MOVITRAC® LTP-B has an integrated keypad. For some applications, however, it is necessary to have an additional keypad in a remote area. The keypad option comes with a self-adhesive seal and a 3 m long cable to be plugged into the RJ45 connector on the MOVITRAC® LTP-B unit. The maximum cable length between the keypad and the drive is 25 m for unshielded cables and 100 m for shielded cables.

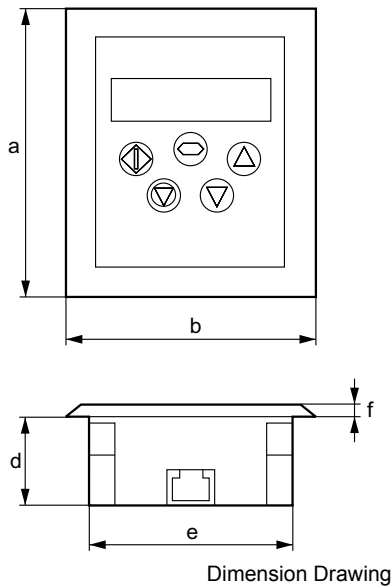


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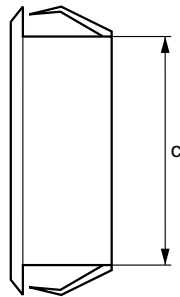


2.4.1 Installation in control cabinet door or control panel

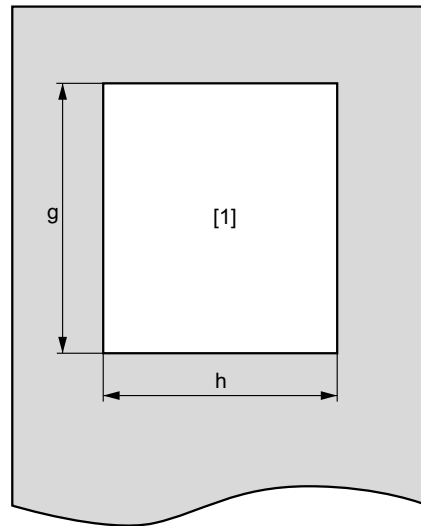
To install LT BG-C in the door of a control cabinet or in a control panel the metal work has to be cut according to the drawing below. By using the included self-adhesive seal the installed keypad meets the IP54 / NEMA 13 standard.



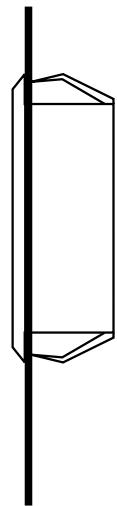
Dimension Drawing



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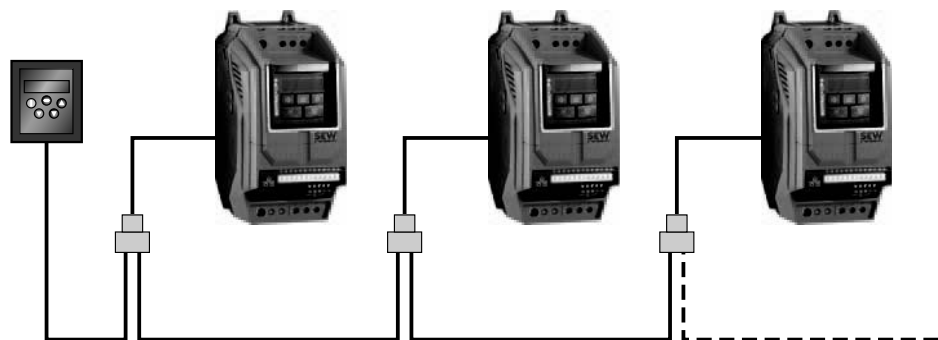
Switch cabinet mounting cut out



3186133131

- [a] 81 mm
- [b] 55 mm
- [c] 65 mm
- [d] 21 mm
- [e] 55 mm

- [f] 3 mm
- [g] 70 mm
- [h] 55 mm
- [1] Cut out

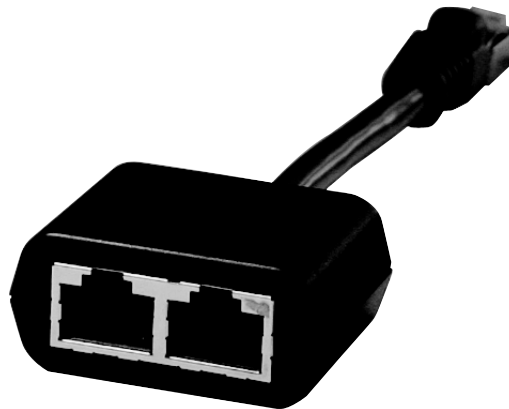


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One keypad can be installed and control up to 63 drives in a drive network. The overall cable length in the network must not exceed 25 m for unshielded cables or 100 m for shielded cables.

**2.5 Cable splitter: 1 in and 2 out**

Type	Part number
LT-RJ-CS-21-C	2820 1140



5122166411

The RJ45 data cable splitter is required when the RJ45 communication port of a MOVITRAC® LTP-B unit is connected to ≥ 1 other drive.

Typical applications are where communication is required from any of the following sources to multiple drives forming a network:

- Remote keypad LT BG-B
- Drive networks to MOVI-PLC® via SBus
- Fieldbus communication via UOH / DFx gateway



2.6 Network connection packages

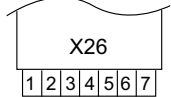
Connection packages containing all necessary parts are available for a network connection for MOVITRAC® LTE-B or LTP-B with a gateway in UOx housing.

2.6.1 Basic set (cable set A)

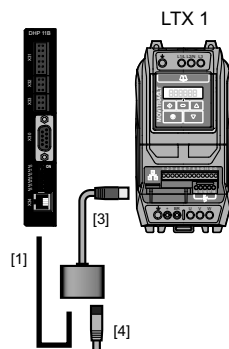
The basic set includes the basic configuration.

Quantity	Description	Part number
1	RJ45 open end cable	2820 2554
1	Cable splitter	
1	Terminating connector	

Connect the RJ45 open end cable to the 7 pin connector of the MOVI-PLC® or gateway.

Side view, Stand-alone unit	Description	Terminal		Connection to RJ45 connector
 <p>X26</p> <p>2108496651</p>	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 has to be connected to the last drive in the network.



- [1] RJ45 open end cable
- [2] RJ45 cable
- [3] Cable splitter
- [4] Terminating plug-in



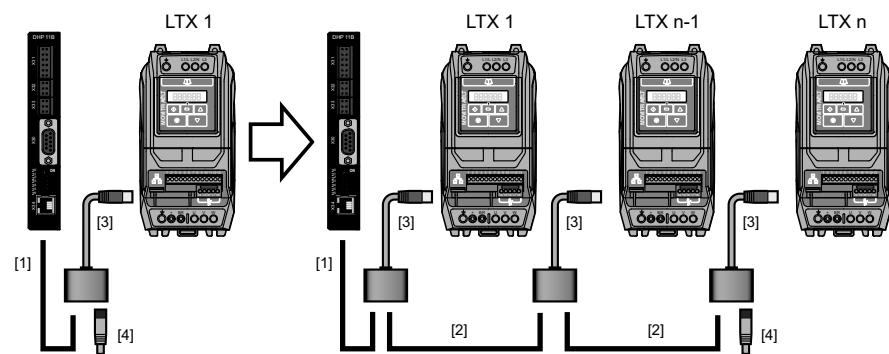
2.6.2 Extension set (cable set B)

The extension set is used in addition to the basic set (A) to connect further drives to the network. For a single connection to a keypad only the extension set is required.

Quantity	Description	Part number	
		0.5 m	1 m
1	Cable splitter	2820 2546	2820 2562
1	Variable length cable between drives		

2.6.3 Example

The following figure shows a network of 3 drives connected to a gateway.



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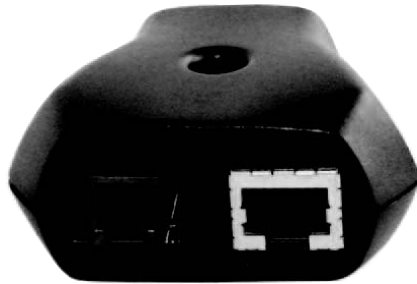
- [1] RJ45 open end cable
- [2] RJ45 cable
- [3] Cable splitter
- [4] Terminating plug-in

Package type	Quantity	Description	Part number
A	1	Basic package for gateway-drive connection	2820 2554
B	1	Extension set 1 m	2820 2562
B	1	Extension set 0.5 m	2820 2546



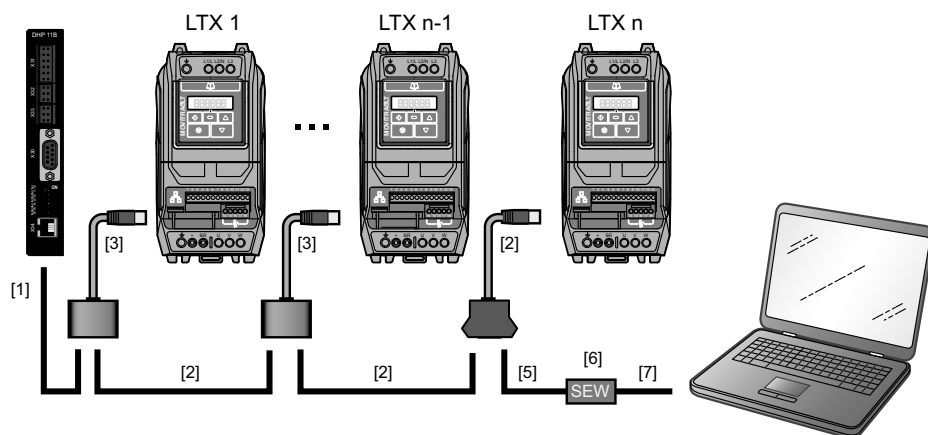
2.6.4 PC engineering set (Cable set C)

The PC engineering set (C) includes all the necessary components to connect to a network of MOVITRAC® LTP-B, LTP-A or a MOVIFIT® basic via RS-485.



3805148171

Quantity	Description	Part number
1	RJ converter	1824 3681
1	1 × RJ45 to RJ45 cable	
1	1 × RJ45 to RJ11 cable	



5131010315

- | | | | |
|-----|---------------------|-----|------------------|
| [1] | RJ45 open end cable | [5] | RJ11 cable |
| [2] | RJ45 cable | [6] | USB11A |
| [3] | Cable splitter | [7] | USB A to B cable |
| [4] | Terminating plug-in | | |

In an SBus network the terminating connector or RJ converter also contains a terminating resistor. If the PC engineering set (C) is used in conjunction with the basic set (A), the terminating connector must be replaced with the RJ converter.

The RJ10 (4 pin connector) must be connected to the USB11A.

If the PC engineering set is used for MOVITRAC® LTP-A or MOVIFIT® basic, the RJ45 to RJ11 cable has to be used to establish the connection to the drive.



2.7 USB11A interface adapter USB / RS-485

The USB11A option is used to connect a PC or laptop with USB interface to the RJ converter. The USB11A interface adapter supports USB1.1 and USB2.0.

The connection between USB11A and PC is made using a standard USB cable, type USB A-B (shielded).

The RJ converter is required for connecting the USB11A.

Type	Part number
USB11A	824 831 1

2.7.1 Scope of delivery

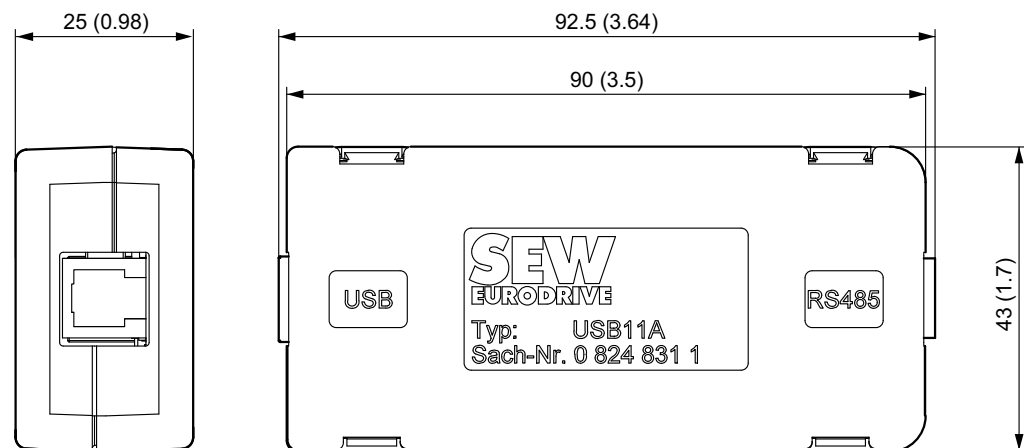
- USB11A unit
- USB connection cable type USB A-B to connect a PC to USB11A
- Serial interface cable with 2 × RJ10 connectors to connect the RJ converter and USB11A.
- CD-ROM with drivers and MOVITOOLS[®] MotionStudio software.

2.7.2 Technical data

Operational ambient temperature range	0 °C – 40 °C
Conformance	IP20

2.7.3 Dimensions

All dimensions are in mm (in).



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2.7.4 RS-485 interface

A maximum of 63 MOVITRAC[®] LTP-B and LTE-B units can be networked for communication via the RS-485 interface of the USB11A.

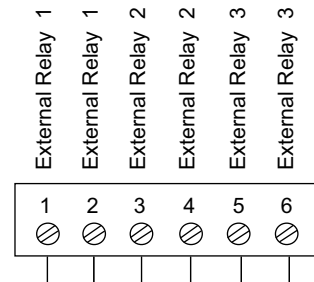
The maximum length of the shielded cable is 100 m.

A unique drive address is required.



2.8 Relay output card

Type	Part number
OBLT 3ROUT-A	28201159



4092456459

4094044555

The relay output card can be used if an application requires more relay outputs than the drive provides.

The relay card supports 3 relays, which can be programmed individually according to the following table:

Set	Function	Explanation
0	Drive enabled	Relay contacts closed when drive enabled.
1	Drive healthy (digital)	Relay contacts closed when drive healthy (no trip).
2	Motor at target speed (digital)	Relay contacts closed when output frequency within 0.1 Hz to target frequency.
3	Motor speed ≥ 0 (digital)	Relay contacts closed when output frequency greater than "zero frequency" (0.3 % of base frequency).
4	Motor speed \geq limit (digital)	Relay contacts closed when output frequency greater than limit.
5	Motor current \geq limit (digital)	Relay contacts closed when motor current / torque greater than current limit.
6	Motor torque limit \geq (digital)	
7	Analog input 2 \geq limit (digital)	Relay contacts closed when 2nd analog input value greater than limit.

2.8.1 Technical data

Maximum relay switching voltage	AC 250 V / DC 30 V
Maximum relay switching current	AC 6 A (250 V) / DC 5 A (30 V)
Conformity	IP20, UL94V-0
Operational ambient temperature range	-10 °C to +50 °C
Terminal tightening torque	0.5 Nm (4.5 lb in)

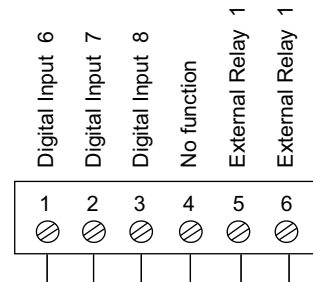
- INFORMATION**

When the relay output card is used, Modbus RTU is no longer available. Only 1 option card can be plugged in to the drive.



2.9 Digital I/O card

Type	Part number
OBLT IO-A	28201167



4092456459

4094357899

The digital I/O card provides 3 digital inputs and 1 additional relay output. Note that the digital inputs have to be parameterized in the drive, otherwise they do not have any function.

The relay output can be assigned to the following functions:

Set	Function	Explanation
0	Drive enabled	Relay contacts closed when drive enabled.
1	Drive healthy (digital)	Relay contacts closed when drive healthy (no trip).
2	Motor at target speed (digital)	Relay contacts closed when output frequency within 0.1 Hz to target frequency.
3	Motor speed ≥ 0 (digital)	Relay contacts closed when output frequency greater than "zero frequency" (0.3 % of base frequency).
4	Motor speed \geq limit (digital)	Relay contacts closed when output frequency greater than limit.
5	Motor current \geq limit (digital)	Relay contacts closed when motor current / torque greater than current limit.
6	Motor torque limit \geq (digital)	
7	Analog input 2 \geq limit (digital)	Relay contacts closed when 2nd analog input value greater than limit.

2.9.1 Technical data

Maximum relay switching voltage	AC 250 V / DC 30 V
Maximum relay switching current	AC 6 A (250 V) / DC 5 A (30 V)
Conformity	IP20, UL94V-0
Operational ambient temperature range	-10 °C to +50 °C
Terminal tightening torque	0.5 Nm (4.5 lb in)

- INFORMATION**

When the relay output card is used, Modbus RTU is no longer available. Only 1 option card can be plugged in to the drive.



2.10 Parameter module

Type	Part number
LTBP-C	1824 1549



3186169867

- Functionality
 - Storing data from the inverter in the parameter module
 - Loading data back from the parameter module into the inverter
 - Providing an infrared interface for communication between Windows PDA Smartphone and MOVITRAC® LTP-B.
- Supported unit types
 - MOVITRAC® LTP-B.

2.11 Fieldbus connection

2.11.1 Fieldbus gateways

The fieldbus gateways convert standard fieldbuses to the SEW-EURODRIVE SBus. This means that up to 8 inverters can be triggered using one gateway.

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

In general, you can also connect and operate other SEW-EURODRIVE units, such as MOVIDRIVE® drive inverters, using the SBus.

Available gateways

Gateways are available for the following bus systems for connection to fieldbuses:

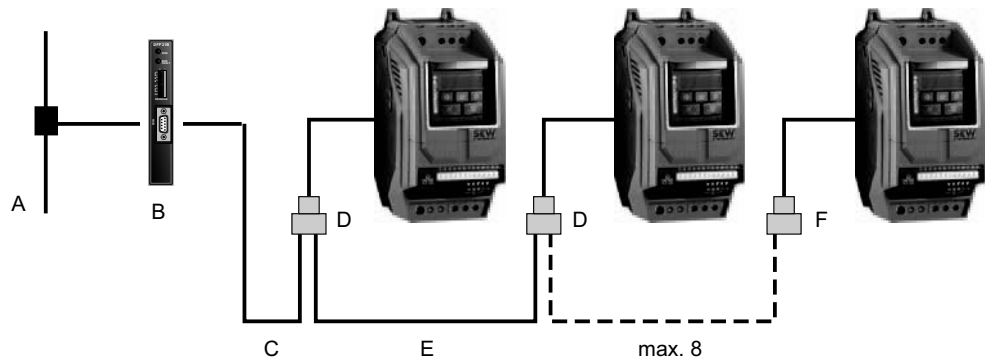
Bus	Separate housing
PROFIBUS	DFP21B / UOH11B
EtherCAT®	DFE24 / UOH11B
DeviceNet	DFD11 / UOH11B
PROFINET	DFE32 / UOH11B
ETHERNET / IP	DFE33B / UOH11B



Available controllers

Type	Fieldbus interfaces
DHE21B / 41B in UOH11B	<ul style="list-style-type: none"> Ethernet TCP/IP UDP
DHF21B / 41B in UOH21B	<ul style="list-style-type: none"> Ethernet TCP/IP UDP PROFIBUS DP-V1 DeviceNet
DHR21B / 41B in UOH21B	<ul style="list-style-type: none"> Ethernet TCP/IP UDP PROFINET EtherNet/IP Modbus TCP/IP

Operating principle The fieldbus gateways have standardized interfaces. Connect lower-level MOVITRAC® LTP-B units to the fieldbus gateway via the SBus unit system bus.



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Legend	Further information
[A] Bus connection	–
[B] Gateway	See section "Available gateways"
[C] Prefabricated cable	See chapter "Network connection packages"
[D] Splitter	See chapter "Cable splitter: 1 in and 2 out"
[E] Prefabricated cable	See chapter "Network connection packages"
[F] Terminating connector	See chapter "Network connection packages"

2.12 Software LT Shell version 4

The LT Shell software enables fast and easy startup and commissioning of MOVITRAC® LTP-B units. It is available for download via the SEW-EURODRIVE website.

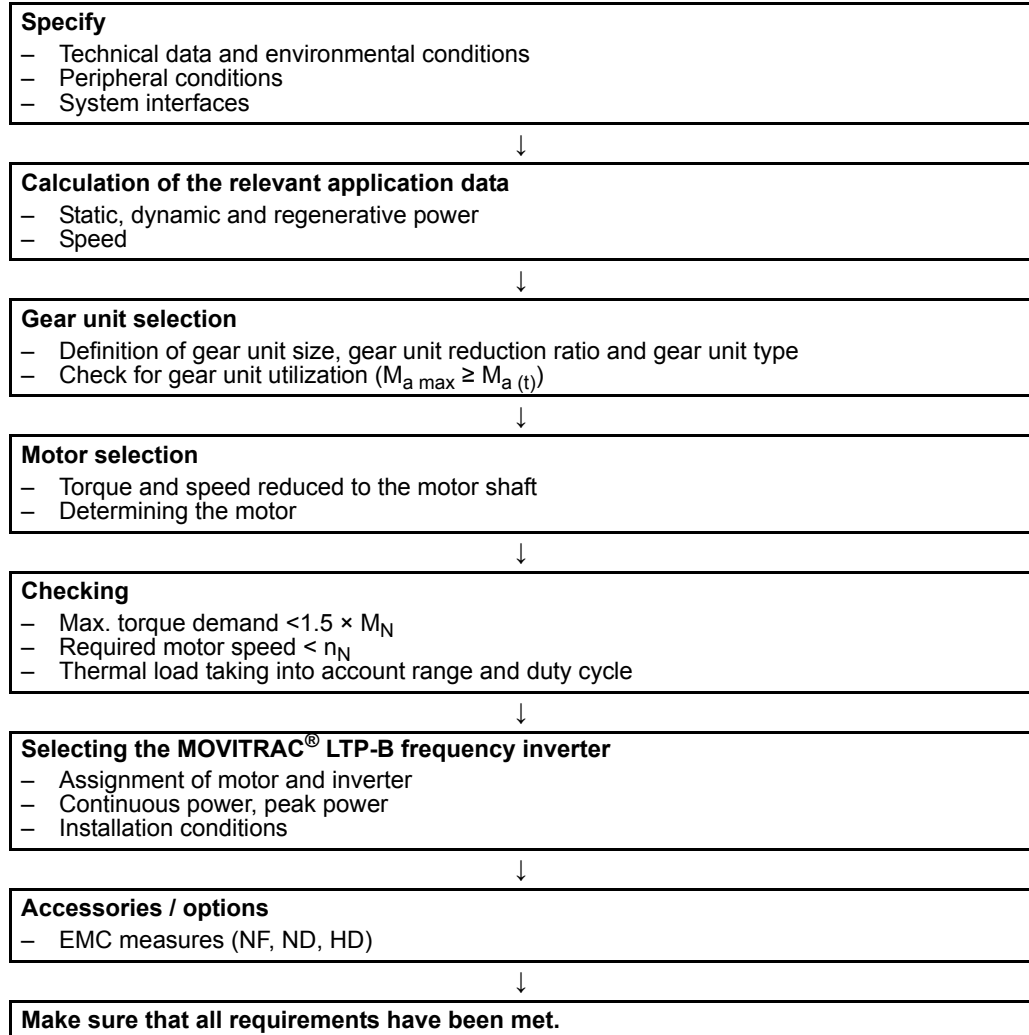
The software provides the ability to carry out the following tasks:

- Upload and download parameters
- Save drive parameters to a file
- Export drive parameters to Microsoft Word
- Control the drive
- Monitor the status of the motor and inputs / outputs



3 Selecting a Motor

3.1 Project planning flowchart





4 Address Directory

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	
	Production / Industrial Gears	Bruchsal	SEW-EURODRIVE GmbH & Co KG Christian-Pähr-Str.10 D-76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-2970
Production	Graben	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 1 D-76676 Graben-Neudorf P.O. Box Postfach 1220 • D-76671 Graben-Neudorf	Tel. +49 7251 75-0 Fax +49 7251 75-2970	
	Östringen	SEW-EURODRIVE GmbH & Co KG, Werk Östringen Franz-Gurk-Straße 2 D-76684 Östringen	Tel. +49 7253 9254-0 Fax +49 7253 9254-90 oesstringen@sew-eurodrive.de	
Service Competence Center	Central	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	
	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	
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	Drive Service Hotline / 24 Hour Service			+49 180 5 SEWHELP +49 180 5 7394357 14 euro cents/min on the German landline network. Max 42 euro cents/min from a German mobile network. Prices for mobile and international calls may differ.
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Hannover/Garbsen	SEW-EURODRIVE GmbH & Co KG Alte Ricklinger Str.40-42 D-30823 Garbsen P.O. Box Postfach 1104 53 • D-30804 Garbsen	Tel. +49 5137 8798-10 Fax +49 5137 8798-50 tb-hannover@sew-eurodrive.de	
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	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
	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
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Franche-Comté	SEW-USOCOME Chemin des saules F-25870 Venise	Tel. +33 3 81 60 20 47 Fax +33 3 81 87 75 93	
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Île-de-France South	SEW-USOCOME 6 chemin des bergers Lieu-dit Marchais F-91410 Roinville sous Dourdan	Tel. +33 1 60 81 10 56 Fax +33 1 60 81 10 57	
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Argentina			
Assembly Sales	Buenos Aires	SEW EURODRIVE ARGENTINA S.A. Centro Industrial Garin, Lote 35 Ruta Panamericana Km 37,5 1619 Garin	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
Sales Service	Adelaide	SEW-EURODRIVE PTY. LTD. 9C Park Way Mawson Lakes, SA 5095	Tel. +61 8 8161 4000 Fax +61 8 8161 4002 enquires@sew-eurodrive.com.au
	Brisbane	SEW-EURODRIVE PTY.LTD. 1 /34 Collinsvale St Rocklea, Queensland, 4106	Tel. +61 7 3276 5100 Fax +61 7 3276 5102 enquires@sew-eurodrive.com.au
	Perth	SEW-EURODRIVE PTY. LTD. 10 Colin Jamieson Drive Welshpool, WA 6106	Tel. +61 8 9251-4900 Fax +61 8 9251-4903 enquires@sew-eurodrive.com.au
Sales	Townsville	SEW-EURODRIVE PTY. LTD. 12 Leyland Street Garbutt, QLD 4814	Tel. +61 7 4779 4333 Fax +61 7 4779 5333 enquires@sew-eurodrive.com.au
Austria			
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Technical Offices	Linz	SEW-EURODRIVE Ges.m.b.H. Reuchlinstr. 6/3 A-4020 Linz	Tel. +43 732 655 109-0 Fax +43 732 655 109-20 tb-linz@sew-eurodrive.at
	Graz	SEW-EURODRIVE Ges.m.b.H. Grabenstraße 231 A-8045 Graz	Tel. +43 316 685 756-0 Fax +43 316 685 755 tb-graz@sew-eurodrive.at



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Belarus			
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Belgium			
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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
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	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
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Estonia			
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		Drive Service Hotline / 24 Hour Service	Tel. 01924 896911
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	Scotland	SEW-EURODRIVE Ltd. No 37 Enterprise House Springkerse Business Park Stirling FK7 7UF	Tel. +44 17 8647-8730 Fax +44 17 8645-0223
Greece			
Sales	Athens	Christ. Boznos & Son S.A. 12, K. Mavromichali Street P.O. Box 80136 GR-18545 Piraeus	Tel. +30 2 1042 251-34 Fax +30 2 1042 251-59 http://www.boznos.gr info@boznos.gr
Technical Office	Thessaloniki	Christ. Boznos & Son S.A. Asklipiou 26 562 24 Evosmos, Thessaloniki	Tel. +30 2 310 7054-00 Fax +30 2 310 7055-15 info@boznos.gr
Hong Kong			
Assembly 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



Hungary			
Sales Service	Budapest	SEW-EURODRIVE Kft. H-1037 Budapest Kunigunda u. 18	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 & VELAVERK EHF Dalshrauni 5 IS-220 Hafnarjördur	Tel. +354 585 1070 Fax +354 585)1071 varmaverk@varmaverk.is http://www.varmaverk.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, +91 265 2831086 Fax +91 265 3045300, +91 265 2831087 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
Technical Offices	Ahmedabad	SEW-EURODRIVE India Private Limited 306, Shaan office complex, Behind Sakar-IV, Ellisebridge, Ashram Road Ahmedabad – Gujarat	Tel. +91 79 40072067/68 Fax +91 79 40072069 salesahmedabad@seweurodriveindia.com
	Bangladesh	SEW-EURODRIVE INDIA PRIVATE LIMITED Genetic Udayanchal, House-96 (6th Floor), Road-23/A, Block-B, Banani, Dhaka-1213, Bangladesh	Mobile +88 01729 097309 salesdhaka@seweurodrivebangladesh.com
	Bangalore	SEW-EURODRIVE India Private Limited 308, Prestige Centre Point 7, Edward Road Bengaluru - 560052 - Karnataka	Tel. +91 80 22266565 Fax +91 80 22266569 salesbangalore@seweurodriveindia.com
	Chennai	SEW-EURODRIVE India Private Limited 2nd Floor, Josmans Complex, No. 5, McNichols Road, Chetpet Chennai - 600031 - Tamil Nadu	Tel. +91 44 42849813 Fax +91 44 42849816 saleschennai@seweurodriveindia.com
	Coimbatore	SEW-EURODRIVE INDIA PRIVATE LIMITED 687/2, SRI SAKTHIVEL TOWERS (NEAR DEEPAM HOSPITAL) TRICHY ROAD, RAMANATHAPURAM COIMBATORE - 641 045.Tamilnadu	Tel. +91 422 2322420 Fax +91 422 2323988 salescoimbatore@seweurodriveindia.com
	Cuttack	SEW-EURODRIVE India Private Limited Plot No.- 1764, Nuasahi, Nayapalli Bhubaneswar-12 Orissa	Tel. +91 9937446333 salescuttack@seweurodriveindia.com
	Hyderabad	SEW-EURODRIVE India Private Limited 408, 4th Floor, Meridian Place Green Park Road Amerpet Hyderabad - 500016 - Andhra Pradesh	Tel. +91 40 23414698 Fax +91 40 23413884 saleshyderabad@seweurodriveindia.com



India		
Jamshedpur	SEW-EURODRIVE India Private Limited Flat No.: B/2, B.S. Apartment Road No.: 4, Contractor's area, Bistupur Jamshedpur 831 001 - Chhattisgarh	Tel. +91 9934123671 salesjamshedpur@seweurodrivein- dia.com
Kolkata	SEW EURODRIVE India Private Limited 2nd floor, Room No. 35 Chowringhee Court 55, Chowringhee Road Kolkata - 700 071 - West Bengal	Tel. +91 33 22827457 Fax +91 33 22894204 saleskolkata@seweurodriveindia.com
Lucknow	SEW-EURODRIVE India Private Limited 69, Shiv Vihar Colony Vikas Nagar-5 Lucknow 226022 - Uttar Pradesh	Tel. +91 9793627333 saleslucknow@seweurodriveindia.com
Mumbai	SEW-EURODRIVE India Private Limited 312 A, 3rd Floor, Acme Plaza, J.B. Nagar, Andheri Kurla Road, Andheri (E) Mumbai - 400059 - Maharashtra	Tel. +91 22 28348440 Fax +91 22 28217858 salesmumbai@seweurodriveindia.com
Nashik	SEW-EURODRIVE India Private Limited 107, "YOG" Bungalow, Mahatama Nagar, Trimbak Road, Nashik, Maharashtra – 422 007	Tel. +91 9665752978 salesnashik@seweurodriveindia.com
New Delhi	SEW-EURODRIVE India Private Limited 1008, 10th Floor, 12th Level 'Westend Mall' Tower Plot, District Centre Adjacent Hotel Hilton Janak Puri, New Delhi – 110058	Tel. +91 11 25544111 Fax +91 11 25544113 salesdelhi@seweurodriveindia.com
Pune	SEW-EURODRIVE India Private Limited Lunawat Prism 4th floor, S. No. 148, Neena Co-Operative Housing Society, Paud Road, Pune 411038 - Maharashtra	Tel. +91 20 25380730 / 735 Fax +91 20 25380721 salespune@seweurodriveindia.com
Raipur	SEW-EURODRIVE India Private Limited A-42, Ashoka Millenium Complex, Ring Road-1, Raipur 492 001 - Chhattisgarh	Tel. +91 771 4090765 Fax +91 771 4090765 salesraipur@seweurodriveindia.com
Ranchi	SEW-EURODRIVE India Private Limited Flat No : A - 101, Krishna Shree Apartment, Anantpur, P.O. Doranda – Ranchi 834002	Tel. +91 8294630772 salesranchi@seweurodriveindia.com
Tiruchirappalli	SEW-EURODRIVE India Private Limited A-106, Trichy Towers, Chandrasekarapuram, Salai Road, Trichy – 620018.	Mobile +91 95009 88081 salestrichy@seweurodriveindia.com
Vadodara	SEW-EURODRIVE India Private Limited Unit No. 301, Savorite Bldg, Plot No. 143, Vinayak Society, off old Padra Road, Vadodara - 390 007. Gujarat	Tel. +91 265 2325258 Fax +91 265 2325259 salesvadodara@seweurodrivein- dia.com
Vijayawada	SEW-EURODRIVE India Private Limited Door No: 40-5/3-10A, Shyam Nagar, Tikkle Road, NGO's Colony, Vijayawada, A.P. – 520010	Tel. +91 9989501748 Fax +91 866-2475157 salesvijayawada@seweurodrivein- dia.com



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		PT. Agrindo Putra Lestari Jl.Prof.DR.Latumenten no27/A Jakarta 11330	Tel: +62 21 63855588 Fax: +62 21 63853789 aplindo@indosat.net.id
		PT. Sentratek Adiprestasi Jl. Industri Raya I, Komp. Gunung Sahari 8 Block B-3 Gunung Sahari Utara, Sawah B Jakarta 10720	Tel: +62 21 6398122 Fax: +62 21 6499264 adm_samit@yahoo.co.id roberto_samit@yahoo.co.id
	Medan	PT. Serumpun Indah Lestari 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
	Surabaya	PT. TRIAGRI JAYA ABADI Jl. Sukosemolo No. 63, Galaxi Bumi Permai G6 No. 11 Surabaya 60122	Tel: +62 31 5990128 Fax: +62 31 5962666 triagri@indosat.net.id
		CV. Multi Mas Jl. Raden Saleh 43A Kav. 18 Surabaya 60174	Tel: +62 31 5458589 / +62 31 5317224 Fax: +62 31 5317220 / +62 31 5994629 sianhwa@sby.centrin.net.id
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 info@alperton.ie http://www.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	Solaro	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via Bernini,14 I-20020 Solaro (Milano)	Tel. +39 02 96 9801 Fax +39 02 96 799781 http://www.sew-eurodrive.it sewit@sew-eurodrive.it
Technical Offices	Bologna	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via della Grafica, 47 I-40064 Ozzano dell'Emilia (Bo)	Tel. +39 051 65-23-801 Fax +39 051 796-595
	Caserta	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Viale Carlo III Km. 23,300 I-81020 S. Nicola la Strada (Caserta)	Tel. +39 0823 219011 Fax +39 0823 421414
	Milan	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via Bernini,14 I-20020 Solaro (Milano)	Tel. +39 02 96 980229 Fax +39 02 96 799781
	Pescara	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Viale Europa,132 I-65010 Villa Raspa di Spoltore (PE)	Tel. +39 085 41-59-427 Fax +39 085 41-59-643
	Torino	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Filiale Torino c.so Unione Sovietica 612/15 - int. C I-10135 Torino	Tel. +39 011 3473780 Fax +39 011 3473783



Italy			
	Verona	SEW-EURODRIVE di R. Blicke & Co.s.a.s. Via P. Sgulmero, 27/A I-37132 Verona	Tel. +39 045 89-239-11 Fax +39 045 97-6079
Ivory Coast			
Sales	Abidjan	SICA Société industrielle & commerciale pour l'Afrique 165, Boulevard de Marseille 26 BP 1115 Abidjan 26	Tel. +225 21 25 79 44 Fax +225 21 25 88 28 sicamot@aviso.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 373855 http://www.sew-eurodrive.co.jp sewjapan@sew-eurodrive.co.jp
Technical Offices	Fukuoka	SEW-EURODRIVE JAPAN CO., LTD. C-go, 5th-floor, Yakuin-Hiruzu-Bldg. 1-5-11, Yakuin, Chuo-ku Fukuoka, 810-0022	Tel. +81 92 713-6955 Fax +81 92 713-6860 sewkyushu@jasmine.ocn.ne.jp
	Osaka	SEW-EURODRIVE JAPAN CO., LTD. Higobashi Shimizu Bldg. 10th flor 1-3-7 Tosabori, Nishi-ku Osaka, 550-0001	Tel. +81 6 6444--8330 Fax +81 6 6444--8338 sewosaka@crocus.ocn.ne.jp
	Tokyo	SEW-EURODRIVE JAPAN CO., LTD. Omarimon Yusen Bldg. 13th floor 3-23-5 Nishinbashi, Minato-ku Tokyo 105-0003	Tel. +81 3 3239-0469 Fax +81 3 3239-0943 sewtokyo@basil.ocn.ne.jp
Kazakhstan			
Sales	Almaty	TOO "СЕВ-ЕВРОДРАЙВ" пр.Райымбека, 348 050061 г. Алматы Республика Казахстан	Тел. +7 (727) 334 1880 Факс +7 (727) 334 1881 http://www.sew-eurodrive.kz sew@sew-eurodrive.kz
Latvia			
Sales	Riga	SIA Alas-Kuul Katlakalna 11C LV-1073 Riga	Tel. +371 6 7139253 Fax +371 6 7139386 http://www.alas-kuul.com info@alas-kuul.com
Lebanon			
Jordan Kuwait Saudi Arabia Syria	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
	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 info@medrives.com http://www.medrives.com
Lithuania			
Sales	Alytus	UAB Irseva Statybininku 106C LT-63431 Alytus	Tel. +370 315 79204 Fax +370 315 56175 irmantas@irseva.lt http://www.sew-eurodrive.lt



Luxembourg			
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.lu info@sew-eurodrive.be
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
Technical Offices	Kota Kinabalu	SEW-EURODRIVE Sdn Bhd (Kota Kinabalu Branch) Lot No. 2, 1st Floor, Inanam Baru Phase III, Miles 5.1 /2, Jalan Tuaran, Inanam 89350 Kota Kinabalu Sabah, Malaysia	Tel. +60 88 424792 Fax +60 88 424807
	Kuala Lumpur	SEW-EURODRIVE Sdn. Bhd. No. 2, Jalan Anggerik Mokara 31/46 Kota Kemuning Seksyen 31 40460 Shah Alam Selangor Darul Ehsan	Tel. +60 3 5229633 Fax +60 3 5229622 sewsa@sew-eurodrive.com.my
	Kuching	SEW-EURODRIVE Sdn. Bhd. Lot 268, Section 9 KTLD Lorong 9, Jalan Satok 93400 Kuching, Sarawak East Malaysia	Tel. +60 82 232380 Fax +60 82 242380
	Penang	SEW-EURODRIVE Sdn. Bhd. No. 38, Jalan Bawal Kimsar Garden 13700 Prai, Penang	Tel. +60 4 3999349 Fax +60 4 3999348 sewpg@sew-eurodrive.com.my
Mauritania			
Sales	Zouérat	AFRICOM - SARL En Face Marché Dumez P.B. 88 Zouérate	Tel. +222 45 44 50 19 Fax +222 45 44 03 14 contact@africom-sarl.com
Mexico			
Assembly Sales Service	Quéretaro	SEW-EURODRIVE MEXICO SA DE CV SEM-981118-M93 Tequisquiapan No. 102 Parque Industrial Quéretaro C.P. 76220 Quéretaro, México	Tel. +52 442 1030-300 Fax +52 442 1030-301 http://www.sew-eurodrive.com.mx scmexico@seweurodrive.com.mx
Morocco			
Sales Service	Mohammedia	SEW EURODRIVE SARL Z.I. Sud Ouest - Lot 28 2ème étage Mohammedia 28810	Tel. +212 523 32 27 80/81 Fax +212 523 32 27 89 sew@sew-eurodrive.ma http://www.sew-eurodrive.ma
Netherlands			
Assembly Sales Service	Rotterdam	SEW-EURODRIVE B.V. Industrieweg 175 NL-3044 AS Rotterdam Postbus 10085 NL-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



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. 10 Settlers Crescent, Ferrymead Christchurch	Tel. +64 3 384-6251 Fax +64 3 384-6455 sales@sew-eurodrive.co.nz
Technical Offices	Palmerston North	SEW-EURODRIVE NEW ZEALAND LTD. C/-Grant Shearman, RD 5, Aronui Road Palmerston North	Tel. +64 6 355-2165 Fax +64 6 355-2316 sales@sew-eurodrive.co.nz
Norway			
Assembly Sales Service	Moss	SEW-EURODRIVE A/S Solgaard skog 71 N-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
Peru			
Assembly Sales Service	Lima	SEW DEL PERU MOTORES REDUCTORES 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	Luzon	Totaltek Corporation 5081-B C&L Mansion Filmore Ave. Cor. Fahrenheit St. 1235 Makati City	Tel: +63 2 551-9265 / +63 2 551-9271 / +63 2 551-9378 Fax: +63 2 551-9273 totaltek@info.com.ph
	All Areas	P.T. Cerna Corporation 2166 Primo Rivera St., Brgy. La Paz, Makati City	Tel: +63 2 890 2862 / +63 2 890 2813 Fax: +63 2 890 2802 electrical_controls@ptcerna.com
Poland			
Assembly Sales Service	Lodz	SEW-EURODRIVE Polska Sp.z.o.o. ul. Techniczna 5 PL-92-518 Łódź	Tel. +48 42 676 53 00 Fax +48 42 676 53 49 http://www.sew-eurodrive.pl sew@sew-eurodrive.pl
	Service	Tel. +48 42 6765332 / 42 6765343 Fax +48 42 6765346	Linia serwisowa Hotline 24H Tel. +48 602 739 739 (+48 602 SEW SEW) serwis@sew-eurodrive.pl
Technical Office	Tychy	SEW-EURODRIVE Polska Sp.z.o.o. ul. Fabryczna 5 PL-43-100 Tychy	Tel. +48 32 32 32 610 Fax +48 32 32 32 648
	Bydgoszcz	SEW-EURODRIVE Polska Sp.z.o.o. ul. Fordońska 246 PL-85-959 Bydgoszcz	Tel. +48 52 3606590 Fax +48 52 3606591
	Poznan	SEW-EURODRIVE Polska Sp.z.o.o. ul. Romana Maya 1 PL-61-371 Poznań	Tel. +48 61 6465500 Fax +48 61 6465519



Poland			
	Radom	SEW-EURODRIVE Polska Sp.z.o.o. ul. Słowackiego 84 PL-26-600 Radom	Tel. +48 48 365 40 50 Fax +48 48 365 40 52
Portugal			
Assembly Sales Service	Coimbra	SEW-EURODRIVE, LDA. Apartado 15 P-3050-901 Mealhada	Tel. +351 231 20 9670 Fax +351 231 20 3685 http://www.sew-eurodrive.pt infosew@sew-eurodrive.pt
Service Competence Center	Lisboa	SEW-EURODRIVE, LDA. Núcleo Empresarial I de São Julião do Tojal Rua de Entremuros, 54 Fracção I P-2660-533 São Julião do Tojal	Tel. +351 21 958-0198 Fax +351 21 958-0245 esc.lisboa@sew-eurodrive.pt
Technical Office	Porto	SEW-EURODRIVE, LDA. Av. 25 de Abril, 68 4440-502 Valongo	Tel. +351 229 350 383 Fax +351 229 350 384 Tel. +351 9 32559110 esc.porto@sew-eurodrive.pt
Romania			
Sales Service	Bucharest	Sialco Trading SRL str. Madrid nr.4 011785 Bucuresti	Tel. +40 21 230-1328 Fax +40 21 230-7170 sialco@sialco.ro
Russia			
Assembly Sales Service	St. Petersburg	ZAO SEW-EURODRIVE P.O. Box 36 195220 St. Petersburg Russia	Tel. +7 812 3332522 +7 812 5357142 Fax +7 812 3332523 http://www.sew-eurodrive.ru sew@sew-eurodrive.ru
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	Irkutsk	ZAO SEW-EURODRIVE 5-Armii Str., 31 RUS-664011 Irkutsk	Tel. +7 3952 25 5880 Fax +7 3952 25 5881 iso@sew-eurodrive.ru
	Moscow	ZAO SEW-EURODRIVE Malaja Semjonovskaja Str. д. 9, корпус 2 RUS-107023 Moskau	Tel. +7 495 9337090 Fax +7 495 9337094 mso@sew-eurodrive.ru
	Novosibirsk	ZAO SEW-EURODRIVE pr. K Marksa 30 RUS-630087 Novosibirsk	Tel. +7 383 3350200 Fax +7 383 3462544 nso@sew-eurodrive.ru
	Perm	ZAO SEW-EURODRIVE Stakhanovskaya str., 45 Office 512 614066 Russia, Perm	Tel. +7 342 2219494 Fax +7 342 2219444 pso@sew-eurodrive.ru
	Togliatti	ZAO SEW-EURODRIVE Sportivnaya Str. 4B, office 2 Samarskaya obl. RUS-445057 Togliatti	Tel. +7 8482 710529 Fax +7 8482 810590
Senegal			
Sales	Dakar	SENEMECA Mécanique Générale Km 8, Route de Rufisque B.P. 3251, Dakar	Tel. +221 338 494 770 Fax +221 338 494 771 senemeca@sentoo.sn http://www.senemeca.com



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Singapore			
Assembly Sales Service	Singapore	SEW-EURODRIVE PTE. LTD. No 9, Tuas Drive 2 Jurong Industrial Estate Singapore 638644	Tel. +65 68621701 Fax +65 68612827 http://www.sew-eurodrive.com.sg sewsingapore@sew-eurodrive.com
Slovakia			
Sales	Bratislava	SEW-Eurodrive SK s.r.o. Rybničná 40 SK-831 06 Bratislava	Tel. +421 2 33595 202 Fax +421 2 33595 200 sew@sew-eurodrive.sk http://www.sew-eurodrive.sk
	Žilina	SEW-Eurodrive SK s.r.o. Industry Park - PChZ ulica M.R.Štefánika 71 SK-010 01 Žilina	Tel. +421 41 700 2513 Fax +421 41 700 2514 sew@sew-eurodrive.sk
	Banská Bystrica	SEW-Eurodrive SK s.r.o. Rudlovska cesta 85 SK-974 11 Banská Bystrica	Tel. +421 48 414 6564 Fax +421 48 414 6566 sew@sew-eurodrive.sk
	Košice	SEW-Eurodrive SK s.r.o. Slovenská ulica 26 SK-040 01 Košice	Tel. +421 55 671 2245 Fax +421 55 671 2254 sew@sew-eurodrive.sk
Slovenia			
Sales Service	Celje	Pakman - Pogonska Tehnika d.o.o. Ul. XIV. divizije 14 SLO - 3000 Celje	Tel. +386 3 490 83-20 Fax +386 3 490 83-21 pakman@siol.net
South Africa			
Assembly Sales Service	Johannesburg	SEW-EURODRIVE (PROPRIETARY) LIMITED Eurodrive House Cnr. Adcock Ingram and Aerodrome Roads Aeroton Ext. 2 Johannesburg 2013 P.O.Box 90004 Bertsham 2013	Tel. +27 11 248-7000 Fax +27 11 494-3104 http://www.sew.co.za info@sew.co.za
	Cape Town	SEW-EURODRIVE (PROPRIETARY) LIMITED Rainbow Park Cnr. Racecourse & Omuramba Road Montague Gardens Cape Town P.O.Box 36556 Chempet 7442 Cape Town	Tel. +27 21 552-9820 Fax +27 21 552-9830 Telex 576 062 cfoster@sew.co.za
	Durban	SEW-EURODRIVE (PROPRIETARY) LIMITED 2 Monaco Place Pinetown Durban P.O. Box 10433, Ashwood 3605	Tel. +27 31 700-3451 Fax +27 31 700-3847 cdejager@sew.co.za
	Nelspruit	SEW-EURODRIVE (PTY) LTD. 7 Christie Crescent Vintonia P.O.Box 1942 Nelspruit 1200	Tel. +27 13 752-8007 Fax +27 13 752-8008 robermeyer@sew.co.za



South Africa			
Technical Offices	Port Elizabeth	SEW-EURODRIVE PTY LTD. 8 Ruan Access Park Old Cape Road Greenbushes 6000 Port Elizabeth	Tel. +27 41 3722246 Fax +27 41 3722247 dtait@sew.co.za
	Richards Bay	SEW-EURODRIVE PTY LTD. 103 Bulion Blvd Richards Bay P.O. Box 458 Richards Bay, 3900	Tel. +27 35 797-3805 Fax +27 35 797-3819 jswart@sew.co.za
South Korea			
Assembly Sales Service	Ansan	SEW-EURODRIVE KOREA CO., LTD. B 601-4, Banweol Industrial Estate #1048-4, Shingil-Dong, Danwon-Gu, Ansan-City, Kyunggi-Do Zip 425-839	Tel. +82 31 492-8051 Fax +82 31 492-8056 http://www.sew-korea.co.kr master.korea@sew-eurodrive.com
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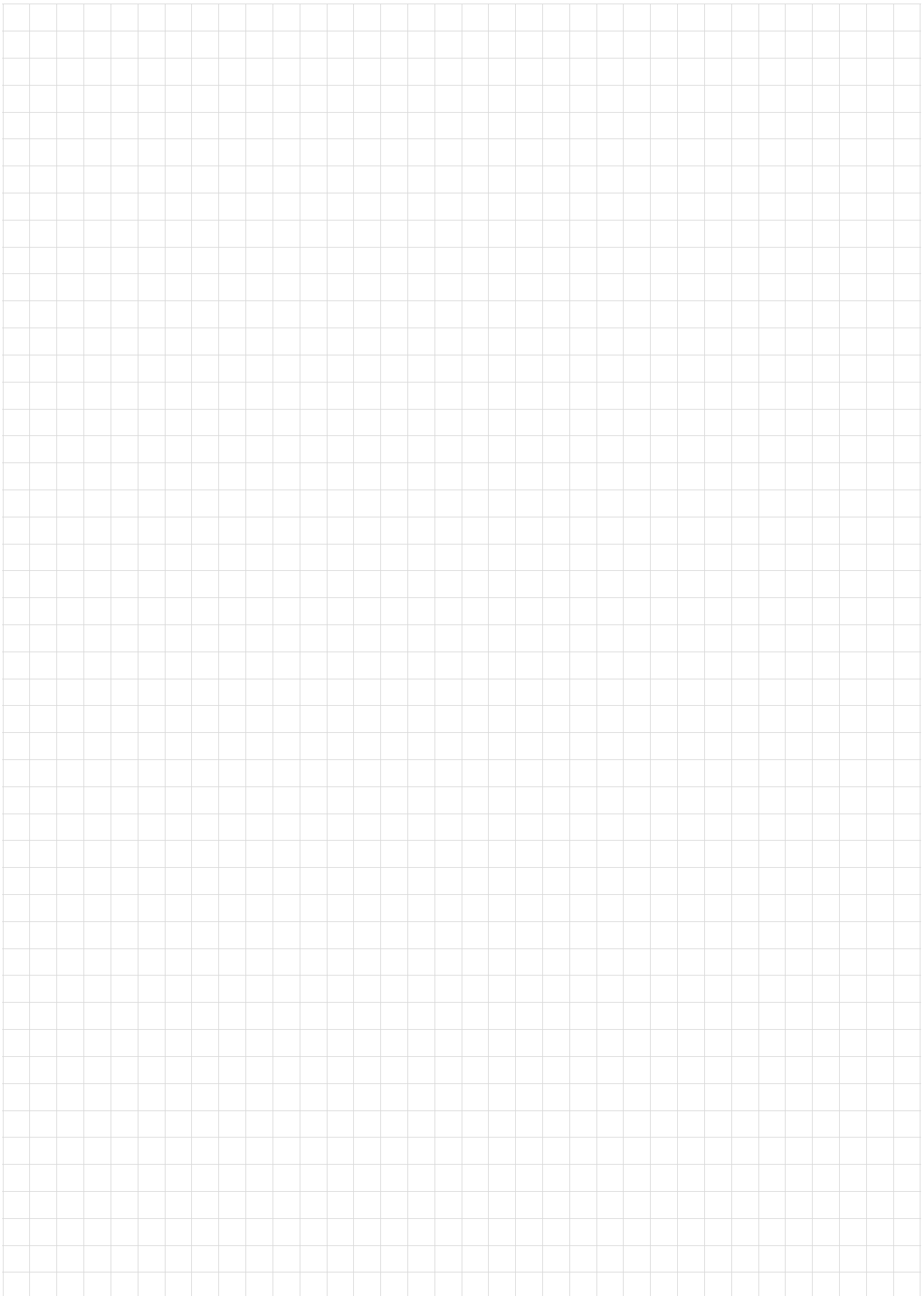
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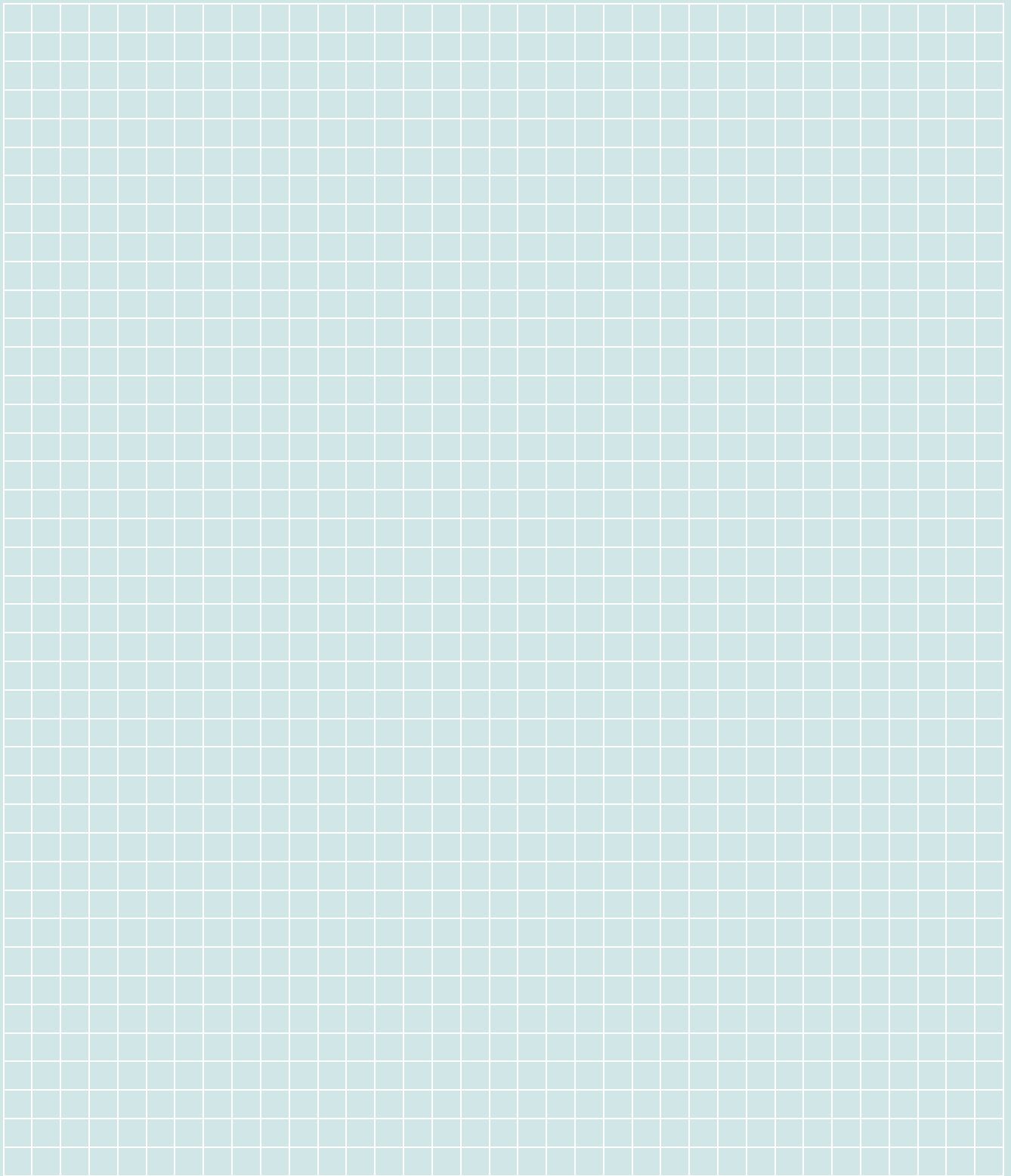
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