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Addendum to the Operating Instructions



MOVITRAC® LTP-B
575 V inverter

1 Notes



INFORMATION

This addendum adds information about the 575 V inverters to the MOVITRAC® LTP-B operating instructions.

This addendum to the operating instructions is only valid in connection with the MOVITRAC® LTP-B operating instructions.

This addendum to the operating instructions describes the specific properties and characteristics of the 575 V inverters.

All other information is specified in the MOVITRAC® LTP-B operating instructions.

2 Properties of the 575 V inverters

2.1 Input voltage range

MOVITRAC® LTP-B, all sizes (500 – 600 V):

500 V – 600 V according to EN 50160, 3-phase, 50 – 60 Hz ± 5%

• INFORMATION

* Single-phase MOVITRAC® LTP-B inverters can also be connected to two phases of a three-phase power supply system of 200 – 240 V.

Inverters 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% (for example in India and parts of the Asia-Pacific region including China), SEW-EURODRIVE recommends that you use input chokes.

2.2 Type designation

Example: MCLTP-B 0015-2B1-4-00 (60 Hz)		
Product name	MCLTP	MOVITRAC® LTP-B
Version	B	Version status of the unit series
Recommended motor power	0015	0015 = 1.5 kW
Supply voltage	2	• 2 = 200 – 240 V • 5 = 380 – 480 V • 6 = 500 – 600 V
Interference suppression on the input	B	• 0 = Class 0 • A = Class C2 • B = Class C1
Connection type	1	• 1 = 1-phase • 3 = 3-phase
Quadrants	4	4 = 4Q operation with brake chopper
Variant	00	• 00 = Standard IP20 housing • 10 = IP55/NEMA-12 housing • 60 Hz = 60 Hz variant

2.3 UL-compliant installation

500 - 600 V inverter

MOVITRAC® LTP...	Max. supply short circuit current	Max. line voltage	Max. fuse rating
0008, 0015	AC 100 kA	AC 600 V	AC 6 A / 600 V
0022, 0040	AC 100 kA	AC 600 V	AC 10 A / 600 V
0055	AC 100 kA	AC 600 V	AC 15 A / 600 V
0075	AC 100 kA	AC 600 V	AC 20 A / 600 V
0110	AC 100 kA	AC 600 V	AC 30 A / 600 V
0150	AC 100 kA	AC 600 V	AC 35 A / 600 V
0185	AC 100 kA	AC 600 V	AC 45 A / 600 V
0220	AC 100 kA	AC 600 V	AC 60 A / 600 V
0300	AC 100 kA	AC 600 V	AC 70 A / 600 V
0370	AC 100 kA	AC 600 V	AC 80 A / 600 V
0450	AC 100 kA	AC 600 V	AC 100 A / 600 V
0550	AC 100 kA	AC 600 V	AC 125 A / 600 V
0750	AC 100 kA	AC 600 V	AC 150 A / 600 V
0900	AC 100 kA	AC 600 V	AC 175 A / 600 V
1100	AC 100 kA	AC 600 V	AC 200 A / 600 V

2.4 Electromagnetic compatibility

The MOVITRAC® LTP-B frequency inverter series is suited for use in machines and systems. It complies with the EMC product standard EN 61800-3 for variable-speed inverters. Observe the specifications of Directive 2004/108/EC (EMC) for EMC compliant installation of the inverter system.

MOVITRAC® LTP-B meets the interference immunity requirements of the EN 61800-3 standard for industry and household applications (light industry).

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

To ensure best possible electromagnetic compatibility, install the inverters as described in the operating instructions. Use shielded motor cables to comply with interference emission regulations.

The table below specifies the conditions for using MOVITRAC® LTP-B in inverter applications:

Inverter type	Cat. C1 (class B)	Cat. C2 (class A)	Cat. C3
	According to EN 61800-3		
575 V, 3-phase LTP-B xxxx 603-x-xx	To comply with the EMC classes, you must install an external EMC filter. The filter is not included in the delivery from SEW-EURODRIVE.		

2.5 Technical data

2.5.1 Size 2

MOVITRAC® LTPB – EMC filter class 0 according to EN 61800-3							
Power in kW			0.75	1.5	2.2	4	5.5
IP20 housing	Type	MC LTP-B. ..	0008-603-4-0 0	0015-603-4-0 0	0022-603-4-0 0	0040-603-4-0 0	0055-603-4-00
	Part number		18251447	18251587	18251714	18410812	18410839
IP55 / NEMA-12 housing	Type	MC LTP-B. ..	0008-603-4-1 0	0015-603-4-1 0	0022-603-4-1 0	0040-603-4-1 0	0055-603-4-10
	Part number		18251455	18251595	18410804	18410820	18410847
INPUT							
Line voltage V _{line} according to EN 50160		V	3 × AC 500 – 600 V				
Line frequency f _{line}		Hz	50/60 Hz ±5%				
Power supply cable cross section		mm ²	1.5	1.5	1.5	1.5	2.5
		AWG	14	14	14	14	14
Line fuse		A	10/(6) ¹⁾	10/(6) ¹⁾	10	10	16/(15) ¹⁾
Nominal input current		A	2.5	3.7	4.9	7.8	10.8
OUTPUT							
Recommended motor power		kW	0.75	1.5	2.2	4	5.5
		PS	1.0	2.0	3.0	5.0	7.5
Output voltage V _{motor}		V	3 × 20 - U _{line}				
Output current		A	2.1	3.1	4.1	6.5	9
Cross section of motor cable Cu 75C		mm ²	1.5	1.5	1.5	1.5	1.5
		AWG	14	14	14	14	14
Max. motor cable length	Shielded	m	100				
	Unshielded		150				
GENERAL INFORMATION							
Size			2				
Heat loss at nominal output power		W	22	45	66	120	165
Minimum braking resistance value		Ω	68				

1) Recommended values for UL compliance

2.5.2 Sizes 3 and 4

MOVITRAC® LTP-B – EMC filter class 0 according to EN 61800-3								
Power in kW			7.5	11	15	18.5	22	30
IP20 housing	Type	MC LTP-B. ..	0075-603-4-00	0110-603-4-00	0150-603-4-00	-	-	-
	Part number		18410855	18410863	18410871	-	-	-
IP55 / NEMA-12 housing	Type	MC LTP-B. ..	0075-603-4-10	0110-603-4-10	0150-603-4-10	0185-603-4-10	0220-603-4-10	0300-603-4-10
	Part number		18251951	18252028	18252052	18410898	18252109	18252133
INPUT								
Line voltage V _{line} according to EN 50160		V	3 × AC 500 – 600 V					
Line frequency f _{line}		Hz	50/60 Hz ±5%					
Power supply cable cross section		mm ²	4	6	10	16	16	16
		AWG	12	10	8	8	6	6
Line fuse		A	20	32/(30) ¹⁾	40/(35) ¹⁾	50/(45) ¹⁾	63/(60) ¹⁾	63/(70) ¹⁾
Nominal input current		A	14.4	20.6	26.7	34	41.2	49.5
OUTPUT								
Recommended motor power		kW	7.5	11	15	18.5	22	30
		PS	10	15	20	25	30	40
Output voltage V _{motor}		V		3 × 20 - U _{line}				
Output current		A	12	17	22	28	34	43
Cross section of motor cable Cu 75C		mm ²	1.5	2.5	4	6	6	10
		AWG	14	10	10	8	8	6
Max. motor cable length	Shielded	m	100					
	Unshielded		150					
GENERAL INFORMATION								
Size			3		3/4 ²⁾	4		
Heat loss at nominal output power		W	225	330	450	555	660	900
Minimum braking resistance value		Ω	39			22		

1) Recommended values for UL compliance

2) IP20 housing: size 3 / IP55 housing: size 4

2 Properties of the 575 V inverters

Technical data

2.5.3 Sizes 5 and 6

MOVITRAC® LTP-B – EMC filter class 0 according to EN 61800-3								
Power in kW			37	45	55 ¹⁾	75 ¹⁾	90 ¹⁾	110 ¹⁾
IP55 / NEMA-12 housing	Type	MC LTP-B...	0370-603- 4-10	0450-603- 4-10	0550-603- 4-10	0750-603- 4-10	0900-603- 4-10	1100-603- 4-10
	Part number		18410901	18252192	18252222	18252257	18252281	18410928
INPUT								
Line voltage V _{line} ac- cording to EN 50160		V	3 × AC 500 – 600 V					
Line frequency f _{line}		Hz	50/60 Hz ±5%					
Power supply cable cross section		mm ²	25	35	50	70	70	95
		AWG	4	3	2	1/0	2/0	3/0
Line fuse		A	80	100	125	160/(150) ²⁾	160/(175) ²⁾	200/(200) ²⁾
Nominal input cur- rent		A	62.2	75.8	90.9	108.2	127.7	134.8
OUTPUT								
Recommended mo- tor power		kW	37	45	55	75	90	110
		PS	50	60	75	100	125	175
Output voltage V _{motor}		V		3 × 20 - U _{line}				
Output current		A	54	65	78	105	130	150
Cross section of mo- tor cable Cu 75C		mm ²	16	25	25	50	70	70
		AWG	4	4	3	1/0	2/0	3/0
Max. mo- tor cable length	Shielded	m	100					
	Unshiel- ded		150					
GENERAL INFORMATION								
Size			5		6			
Heat loss at nominal output power		W	1110	1350	1650	2250	2700	3300
Minimum braking re- sistance value		Ω	22		12		6	

1) Unit not available yet

2) Recommended values for UL compliance