Revision

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MOVITRAC® LTE-B

Edition 11/2014

21352992/EN

1 Revisions

INFORMATION

This document describes the revisions made to the "MOVITRAC® LTE-B" operating instructions.

Please use the data specified in this revision. This document does not replace the detailed operating instructions.

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2 Technical data

2.1 Output power and current carrying capacity without EMC filter

Whether MOVITRAC® LTE-B inverters are used with or without filter 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

2.1.1 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		08296839	08296847	08296855
IP55/NEMA 12K housing without switch	Type	MC LTE B...	0004-101-1-10	0008-101-1-10	0011-101-4-10
	Part number		08297754	08297762	08297770
IP55/NEMA 12K housing with switch	Type	MC LTE B...	0004-101-1-20	0008-101-1-20	0011-101-4-20
	Part number		08297290	08297304	08297312
IP66/NEMA 4X housing without switch	Type	MC LTE B...	0004-101-1-30	0008-101-1-30	0011-101-4-30
	Part number		18254640	18254659	18254667
IP66/NEMA 4X housing with switch	Type	MC LTE B...	0004-101-1-40	0008-101-1-40	0011-101-4-40
	Part number		18252540	18252559	18252567
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
		PS	0.5	1.0	1.5
Output voltage V_{motor}		V	3 × 20 – 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		BG	1		2
Heat loss at nominal output power		W	11	22	33
Minimum braking resistance value		Ω	–		47

1) Recommended values for UL compliance

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2.1.2 1-phase system AC 230 V for 3-phase AC 230 V motors

MOVITRAC® LTE-B – EMC filter class 0								
IP20[1]	Type	MC LTE B...	0004-201-1-00	0008-201-1-00	0015-201-1-00	0015-201-4-00	0022-201-4-00	0040-201-4-00
	Part number		08296863	08296871	08296898	08296901	08296928	18250394
IP55/ NEMA 12K housing without switch[1]	Type	MC LTE B...	0004-201-1-10	0008-201-1-10	0015-201-1-10	0015-201-4-10	0022-201-4-10	0040-201-4-10
	Part number		08297789	08297797	08297800	08297819	08297827	18250408
IP55/ NEMA 12K housing with switch[1]	Type	MC LTE B...	0004-201-1-20	0008-201-1-20	0015-201-1-20	0015-201-4-20	0022-201-4-20	0040-201-4-20
	Part number		08297320	08297339	08297347	08297355	08297363	18250416
INPUT								
Line voltage V_{line}		V	1 × AC 200 – 240 ± 10%					
Line frequency f_{line}		Hz	50 / 60 ± 5 %					
Line 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
		PS	0.5	1	2		3	5
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 America, Asia, and Africa

2) Recommended values for UL compliance

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2.1.3 3-phase system AC 230 V for 3-phase AC 230 V motors

MOVITRAC® LTE-B – EMC filter class 0								
IP20[1]	Type	MC LTE B...	0004-203-1-00	0008-203-1-00	0015-203-1-00	0015-203-4-00	0022-203-4-00	0040-203-4-00
	Part number		08296936	08296944	08296952	08296960	08296979	08296987
IP55/ NEMA 12K housing without switch[1]	Type	MC LTE B...	0004-203-1-10	0008-203-1-10	0015-203-1-10	0015-203-4-10	0022-203-4-10	0040-203-4-10
	Part number		08297835	08297843	08297851	08297878	08297886	08297894
IP55/ NEMA 12K housing with switch[1]	Type	MC LTE B...	0004-203-1-20	0008-203-1-20	0015-203-1-20	0015-203-4-20	0022-203-4-20	0040-203-4-20
	Part number		08297371	08297398	08297401	08297428	08297436	08297444
INPUT								
Line voltage V_{line}		V	3 × AC 200 – 240 ± 10%					
Line frequency f_{line}		Hz	50 / 60 ± 5 %					
Line fuse		A	6	10	16 (15)[2]		20	32 (35)[2]
Nominal input current		A	3	5.8	9.2		13.7	20.7
OUTPUT								
Recommended motor power		kW	0.37	0.75	1.5		2.2	4
		PS	0.5	1	2		3	5
Output voltage V_{motor}		V	0 – V_{line}					
Output current		A	2.3	4.3	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	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 America, Asia, and Africa

2) Recommended values for UL compliance

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2.1.4 3-phase system AC 400 V for 3-phase AC 400 V motors

Sizes 1 and 2

MOVITRAC® LTE-B – EMC filter class 0							
IP20[1]	Type	MC LTE B...	0008-503-1-00	0015-503-1-00	0015-503-4-00	0022-503-4-00	0040-503-4-00
	Part number		08296995	08297002	08297010	08297029	08297037
IP55/NEMA 12K housing without switch	Type	MC LTE B...	0008-503-1-10	0015-503-1-10	0015-503-4-10	0022-503-4-10	0040-503-4-10
	Part number		08297908	08297916	08297924	08297932	08297940
IP55/NEMA 12K housing with switch	Type	MC LTE B...	0008-503-1-20	0015-503-1-20	0015-503-4-20	0022-503-4-20	0040-503-4-20
	Part number		08297452	08297460	08297479	08297487	08297495
INPUT							
Line voltage V_{line}		V	3 × AC 380 – 480 ± 10%				
Line frequency f_{line}		Hz	50 / 60 ± 5 %				
Line 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
		PS	1	2		3	5
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 America, Asia, and Africa

2) Recommended values for UL compliance

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Size 3

MOVITRAC® LTE-B – EMC filter class 0					
IP20[1]	Type	MC LTE B...	0055-503-4-00	0075-503-4-00	0110-503-4-00
	Part number		08297045	08297053	08299218
IP55/NEMA 12K housing without switch[1]	Type	MC LTE B...	0055-503-4-10	0075-503-4-10	-
	Part number		08297959	08297967	-
IP55/NEMA 12K housing with switch[1]	Type	MC LTE B...	0055-503-4-20	0075-503-4-20	-
	Part number		08297509	08297517	-
INPUT					
Line voltage V_{line}		V	3 × AC 380 – 480 ± 10%		
Line frequency f_{line}		Hz	50 / 60 ± 5%		
Line fuse		A	20	25	32 (35)[2]
Nominal input current		A	16.1	20.7	27.1
OUTPUT					
Recommended motor power		kW	5.5	7.5	11
		PS	7.5	10	15
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 America, Asia, and Africa
2) Recommended values for UL compliance

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2.2 Output power and current carrying capacity with EMC filter

Whether MOVITRAC® LTE-B inverters are used with or without 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

2.2.1 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		08297061	08297088	08297096	08297118	08297126	18250424
IP55/ NEMA 12K housing without switch	Type	MC LTE B...	0004-2B1-1-10	0008-2B1-1-10	0015-2B1-1-10	0015-2B1-4-10	0022-2B1-4-10	0040-2B1-4-10
	Part number		08297975	08297983	08297991	08298009	08298017	18250432
IP55/ NEMA 12K housing with switch	Type	MC LTE B...	0004-2B1-1-20	0008-2B1-1-20	0015-2B1-1-20	0015-2B1-4-20	0022-2B1-4-20	0040-2B1-4-20
	Part number		08297525	08297533	08297541	08297568	08297576	18250440
IP66/ NEMA 4X housing without switch	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		18254675	18254683	18254691	18254705	18254713	18254721
IP66/ NEMA 4X housing with switch	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		18251013	18251021	18251048	18251056	18251064	18251072
INPUT								
Line voltage V_{line}		V	1 × AC 200 – 240 ± 10%					
Line frequency f_{line}		Hz	50 / 60 ± 5 %					
Line 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
		PS	0.5	1	2		3	5
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

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2.2.2 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		08297134	08297142	08297150
IP55/NEMA 12K housing without switch	Type	MC LTE B...	0015-2A3-4-10	0022-2A3-4-10	0040-2A3-4-10
	Part number		08298025	08298033	08298041
IP55/NEMA 12K housing with switch	Type	MC LTE B...	0015-2A3-4-20	0022-2A3-4-20	0040-2A3-4-20
	Part number		08297584	08297592	08297606
IP66/NEMA 4X housing without switch	Type	MC LTE B...	0015-2A3-4-30	0022-2A3-4-30	0040-2A3-4-30
	Part number		18254748	18254756	18254764
IP66/NEMA 4X housing with switch	Type	MC LTE B...	0015-2A3-4-40	0022-2A3-4-40	0040-2A3-4-40
	Part number		18251110	18251129	18251137
INPUT					
Line voltage V_{line}		V	3 × AC 200 – 240 ± 10%		
Line frequency f_{line}		Hz	50 / 60 ± 5 %		
Line 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
		PS	2	3	5
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		mm²	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

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2.2.3 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		08297169	08297177	08297185	08297193	08297207
IP55/NEMA 12K housing without switch	Type	MC LTE B...	0008-5A3-1-10	0015-5A3-1-10	0015-5A3-4-10	0022-5A3-4-10	0040-5A3-4-10
	Part number		08298068	08298076	08298084	08298092	08298106
IP55/NEMA 12K housing with switch	Type	MC LTE B...	0008-5A3-1-20	0015-5A3-1-20	0015-5A3-4-20	0022-5A3-4-20	0040-5A3-4-20
	Part number		08297614	08297622	08297630	08297649	08297657
IP66/NEMA 4X housing without switch	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		18254772	18254780	18254799	18254802	18254810
IP66/NEMA 4X housing with switch	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		18251145	18251153	18251161	18251188	18251196
INPUT							
Line voltage V_{line}		V	3 × AC 380 – 480 ± 10%				
Line frequency f_{line}		Hz	50 / 60 ± 5 %				
Line 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
		PS	1	2		3	5
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

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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		08297215	08297223	08299196
IP55/NEMA 12K housing without switch	Type	MC LTE B...	0055-5A3-4-10	0075-5A3-4-10	-
	Part number		08298114	08298122	-
IP55/NEMA 12K housing with switch	Type	MC LTE B...	0055-5A3-4-20	0075-5A3-4-20	-
	Part number		08297665	08297673	-
IP66/NEMA 4X housing without switch	Type	MC LTE B...	0055-5A3-4-30	0075-5A3-4-30	-
	Part number		18254829	18254837	-
IP66/NEMA 4X housing with switch	Type	MC LTE B...	0055-5A3-4-40	0075-5A3-4-40	-
	Part number		18251218	18251226	-
INPUT					
Line voltage V_{line}		V	3 × AC 380 – 480 ± 10%		
Line frequency f_{line}		Hz	50 / 60 ± 5 %		
Line 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
		PS	7.5	10	15
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

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