

# SIMOTICS GP 1LA Standard Motors

## Motors with Standard Efficiency IE1

### Self-ventilated motors Aluminum series 1LA7 and 1LA5

# IE1



#### Selection and ordering data

Operating values at rated output																Aluminum series		m <sub>IM B3</sub> J		Torque class
P <sub>rated</sub> , 50 Hz	P <sub>rated</sub> , 60 Hz	Frame size	n <sub>rated</sub> , 50 Hz	T <sub>rated</sub> , 50 Hz	IE class	η <sub>rated</sub> , 50 Hz, 4/4	η <sub>rated</sub> , 50 Hz, 3/4	η <sub>rated</sub> , 50 Hz, 2/4	COS φ <sub>rated</sub> , 4/4	I <sub>rated</sub> , 50 Hz, 400 V	T <sub>LR</sub> /I <sub>rated</sub>	I <sub>LR</sub> /I <sub>rated</sub>	T <sub>B</sub> /I <sub>rated</sub>	L <sub>pfA</sub> , 50 Hz	L <sub>WA</sub> , 50 Hz	1LA7/1LA5 – IE1 version in accordance with IEC 60034-30	Successor 1LE1002	kg	kgm <sup>2</sup>	CL
kW	kW	FS	rpm	Nm	%	%	%		A							Order No.				
• Cooling: Self-ventilated (IC 411) • Efficiency: Standard Efficiency IE1, service factor (SF) 1.1 • Insulation: Thermal class 155 (temperature class F), IP55 degree of protection, utilization in accordance with thermal class 130 (temperature class B)																				
2-pole: 3000 rpm at 50 Hz, 3600 rpm at 60 Hz <sup>1)</sup>																				
0.18	0.21	63 M	2820	0.61	–	62.0	60.5	56.0	0.82	0.51	2.0	3.7	2.2	49	60	1LA7060-2AA	3.6	0.00018	16	
0.25	0.29	63 M	2830	0.84	–	63.0	62.0	57.0	0.82	0.70	2.0	4.0	2.2	49	60	1LA7063-2AA	4.0	0.00022	16	
0.37	0.43	71 M	2740	1.3	–	66.0	65.0	61.0	0.82	0.99	2.3	3.5	2.3	52	63	1LA7070-2AA	5.0	0.00029	16	
0.55	0.63	71 M	2800	1.9	–	71.0	71.0	67.0	0.82	1.36	2.5	4.3	2.6	52	63	1LA7073-2AA	6.0	0.00041	16	
0.75	0.86	80 M	2855	2.5	IE1	72.1	72.1	68.1	0.86	1.75	2.3	5.6	2.4	56	67	1LA7080-2AA	9.0	0.00079	16	
1.1	1.27	80 M	2845	3.7	IE1	75.0	75.0	72.0	0.87	2.45	2.6	6.1	2.7	56	67	1LA7083-2AA	10.7	0.0010	16	
1.5	1.75	90 S	2860	5.0	IE1	77.2	77.7	74.2	0.85	3.3	2.4	5.5	2.7	60	74	1LA7090-2AA	13	0.0014	16	
2.2	2.55	90 L	2880	7.3	IE1	79.7	79.7	78.7	0.85	4.7	2.8	6.3	3.1	60	74	1LA7096-2AA	15.7	0.0018	16	
3	3.45	100 L	2890	9.9	IE1	81.5	81.5	80.5	0.85	6.3	2.8	6.8	3.0	62	74	1LA7106-2AA	21.5	0.0035	16	
4	4.55	112 M	2905	13	IE1	83.1	83.1	82.1	0.86	8.1	2.6	7.2	2.9	63	75	1LA7113-2AA	28.5	0.0059	16	
5.5	6.3	132 S	2925	18	IE1	84.7	84.7	83.7	0.89	10.5	2.0	5.9	2.8	68	80	1LA7130-2AA	39	0.015	16	
7.5	8.6	132 S	2930	24	IE1	86.0	86.0	85.0	0.89	14.1	2.3	6.9	3.0	68	80	1LA7131-2AA	48	0.019	16	
11	12.6	160 M	2940	36	IE1	87.6	87.6	86.6	0.88	20.5	2.1	6.5	2.9	70	82	1LA7163-2AA	68	0.034	16	
15	17.3	160 M	2940	49	IE1	88.7	88.7	87.7	0.90	27	2.2	6.6	3.0	70	82	1LA7164-2AA	77	0.043	16	
18.5	21.3	160 L	2940	60	IE1	89.3	89.3	88.3	0.91	33	2.4	7.0	3.1	70	82	1LA7166-2AA	86	0.051	16	
22	24.5	180 M	2940	71	IE1	89.9	89.9	88.9	0.88	40 <sup>2)</sup>	2.5	6.9	3.2	70	83	1LA5183-2AA	113	0.077	16	
30	33.5	200 L	2945	97	IE1	90.7	90.7	89.7	0.89	54	2.4	7.2	2.8	71	84	1LA5206-2AA	159	0.14	16	
37	41.5	200 L	2945	120	IE1	91.2	91.2	90.2	0.89	66 <sup>2)</sup>	2.4	7.7	2.8	71	84	1LA5207-2AA	179	0.16	16	
45	51	225 M	2960	145	IE1	91.7	91.7	90.7	0.89	80 <sup>2)</sup>	2.8	7.7	3.4	71	84	1LA5223-2AA	209	0.20	16	

Voltages		No. of poles	Motor type 1LA7	Motor type 1LA5	Version	Order code(s)			
50 Hz	230 VΔ/400 VY	60 Hz <sup>1)</sup>	460 VY	2	1LA7060 ... 166	1LA5183 ... 223	Standard	1	–
50 Hz	400 VΔ/690 VY	60 Hz <sup>1)</sup>	460 VΔ	2	1LA7060 ... 166	1LA5183 ... 223	Standard	6	–
50 Hz	500 VY			2	1LA7060 ... 166	1LA5183 ... 223	Without add. charge	3	–
50 Hz	500 VΔ			2	1LA7106 ... 166	1LA5183 ... 223	Without add. charge	5	–
Further voltages <sup>1)</sup>		For additional charges, code numbers and descriptions, see supplements and special versions.					9	...	
Types of construction		No. of poles	Motor type 1LA7	Motor type 1LA5	Version	Order code(s)			
Without flange			IM B3/6/7/8, IM V6, IM V5 without protective cover	2	1LA7060 ... 166	1LA5183 ... 223	Standard	0	–
With flange			IM B5, IM V1 without protective cover <sup>3)</sup>	2	1LA7060 ... 166	1LA5183 ... 223	With add. charge	1	–
			IM V3 <sup>3)</sup>	2	1LA7060 ... 166	–	With add. charge	1	–
				2	–	1LA5183 ... 223	With add. charge	9	M1G
			IM V1 with protective cover <sup>3) 4)</sup>	2	1LA7060 ... 166	1LA5183 ... 223	With add. charge	4	–
			IM B35	2	1LA7060 ... 166	1LA5183 ... 223	With add. charge	6	–
With standard flange			IM B14, IM V19, IM V18 without protective cover	2	1LA7060 ... 166	–	With add. charge	2	–
			IM B34	2	1LA7060 ... 166	–	With add. charge	7	–
With special flange			IM B14, IM V19, IM V18 without protective cover	2	1LA7060 ... 166	–	With add. charge	3	–
Further types of construction		For additional charges, code numbers and descriptions, see supplements and special versions.					9	...	
Special versions		Order code(s)							
Options		For additional charges, code numbers and descriptions, see supplements and special versions.					1LA . . . . . -Z	...+...+...+...	

<sup>1)</sup> Operating values at rated output for 60 Hz are available on request.

<sup>2)</sup> For connection to 230 V, parallel feeders are necessary.

<sup>3)</sup> 1LA5 motors can be supplied as an option with two additional eyebolts – specify order code K32.

<sup>4)</sup> The "Second shaft extension" option, order code K16 is not possible.



IE1

# SIMOTICS GP 1LA Standard Motors

## Motors with Standard Efficiency IE1

Self-ventilated motors  
Aluminum series 1LA7 and 1LA5

### Selection and ordering data (continued)

Operating values at rated output															Aluminum series		m <sub>IM B3</sub> J		Torque class				
P <sub>rated</sub> , 50 Hz	P <sub>rated</sub> , 60 Hz 1)	Frame size	n <sub>rated</sub> , 50 Hz	T <sub>rated</sub> , 50 Hz	IE class	η <sub>rated</sub> , 50 Hz, 4/4	η <sub>rated</sub> , 50 Hz, 3/4	η <sub>rated</sub> , 50 Hz, 2/4	cos φ <sub>rated</sub> , 50 Hz, 4/4	I <sub>rated</sub> , 50 Hz, 400 V	T <sub>LR</sub> /I <sub>rated</sub>	I <sub>LR</sub> /I <sub>rated</sub>	T <sub>B</sub> /I <sub>rated</sub>	L <sub>pfA</sub> , 50 Hz	L <sub>WA</sub> , 50 Hz	1LA7/1LA5 – IE1 version in accordance with IEC 60034-30 Order No.	Successor 1LE1002	kg	kgm <sup>2</sup>	CL			
kW	kW	FS	rpm	Nm	%	%	%		A							►							
<ul style="list-style-type: none"> <li>Cooling: Self-ventilated (IC 411)</li> <li>Efficiency: Standard Efficiency IE1, service factor (SF) 1.1</li> <li>Insulation: Thermal class 155 (temperature class F), IP55 degree of protection, utilization in accordance with thermal class 130 (temperature class B)</li> </ul>																							
4-pole: 1500 rpm at 50 Hz, 1800 rpm at 60 Hz <sup>1)</sup>																							
0.12	0.14	63 M	1350	0.85	–	53.6	52.1	47.6	0.75	0.43	1.9	2.8	2.0	42	53	1LA7060-4AB	■	3.6	0.00029	13			
0.18	0.21	63 M	1350	1.3	–	58.3	56.8	52.3	0.77	0.58	1.9	3.0	1.9	42	53	1LA7063-4AB	■	4.0	0.00037	13			
0.25	0.29	71 M	1350	1.8	–	61.9	60.4	55.9	0.78	0.75	1.9	3.0	1.9	44	55	1LA7070-4AB	■	4.8	0.00052	13			
0.37	0.43	71 M	1370	2.6	–	65.8	64.8	60.8	0.78	1.04	1.9	3.3	2.1	44	55	1LA7073-4AB	■	6.3	0.00077	13			
0.55	0.63	80 M	1395	3.8	–	69.4	69.4	65.4	0.81	1.41	2.2	3.9	2.2	47	58	1LA7080-4AA	■	8.8	0.0014	16			
0.75	0.86	80 M	1395	5.1	IE1	72.1	72.1	68.1	0.80	1.88	2.3	4.2	2.3	47	58	1LA7083-4AA	■	10	0.0017	16			
1.1	1.27	90 S	1415	7.4	IE1	75.0	75.0	72.0	0.81	2.6	2.3	4.6	2.4	48	60	1LA7090-4AA	■	12.9	0.0024	16			
1.5	1.75	90 L	1420	10	IE1	77.2	77.7	74.2	0.81	3.45	2.4	5.3	2.6	48	60	1LA7096-4AA	■	15.5	0.0033	16			
2.2	2.55	100 L	1420	15	IE1	79.7	79.7	78.7	0.82	4.85	2.5	5.6	2.8	53	65	1LA7106-4AA	■	21	0.0047	16			
3	3.45	100 L	1420	20	IE1	81.5	81.5	80.5	0.82	6.5	2.7	5.6	3.0	53	65	1LA7107-4AA	■	24	0.0055	16			
4	4.55	112 M	1440	27	IE1	83.1	83.1	82.1	0.83	8.4	2.7	6.0	3.0	53	65	1LA7113-4AA	■	30.5	0.012	16			
5.5	6.3	132 S	1455	36	IE1	84.7	84.7	83.7	0.81	11.6	2.5	6.3	3.1	62	74	1LA7130-4AA	■	41	0.018	16			
7.5	8.6	132 M	1455	49	IE1	86.0	86.0	85.0	0.82	15.4	2.7	6.7	3.2	62	74	1LA7133-4AA	■	49	0.023	16			
11	12.6	160 M	1460	72	IE1	87.6	87.6	86.6	0.84	21.5	2.2	6.2	2.7	66	78	1LA7163-4AA	■	73	0.043	16			
15	17.3	160 L	1460	98	IE1	88.7	88.7	87.7	0.84	29	2.6	6.5	3.8	66	78	1LA7166-4AA	■	85	0.055	16			
18.5	21.3	180 M	1455	121	IE1	89.3	89.3	88.3	0.83	36 <sup>2)</sup>	2.3	7.5	3.0	63	76	1LA5183-4AA	■	113	0.13	16			
22	25.3	180 L	1455	144	IE1	89.9	89.9	88.9	0.84	42 <sup>2)</sup>	2.3	7.5	3.0	63	76	1LA5186-4AA	■	123	0.15	16			
30	34.5	200 L	1465	196	IE1	90.7	90.7	89.7	0.86	56	2.6	7.0	3.2	65	78	1LA5207-4AA	■	157	0.24	16			
37	42.5	225 S	1470	240	IE1	91.2	91.2	90.2	0.87	67 <sup>2)</sup>	2.8	7.0	3.2	65	78	1LA5220-4AA	■	206	0.32	16			
45	52	225 M	1470	292	IE1	91.7	91.7	90.7	0.87	81 <sup>2)</sup>	2.8	7.7	3.3	65	78	1LA5223-4AA	■	232	0.36	16			
<b>Voltagess</b>										No. of poles	Motor type 1LA7	Motor type 1LA5	Version		Order code(s)								
50 Hz	230 VΔ/400 VY	60 Hz <sup>1)</sup>	460 VY								4	1LA7060 ... 166	1LA5183 ... 223	Standard		1 –							
50 Hz	400 VΔ/690 VY	60 Hz <sup>1)</sup>	460 VΔ								4	1LA7060 ... 166	1LA5183 ... 223	Standard		6 –							
50 Hz	500 VY								4	1LA7060 ... 166	1LA5183 ... 223	Without add. charge		3 –									
50 Hz	500 VΔ								4	1LA7106 ... 166	1LA5183 ... 223	Without add. charge		5 –									
Further voltagess <sup>1)</sup>			For additional charges, code numbers and descriptions, see supplements and special versions.																				
<b>Types of construction</b>										No. of poles	Motor type 1LA7	Motor type 1LA5	Version		Order code(s)								
Without flange			IM B3/6/7/8, IM V6, IM V5 without protective cover							4	1LA7060 ... 166	1LA5183 ... 223	Standard		0 –								
With flange			IM B5, IM V1 without protective cover <sup>3)</sup>							4	1LA7060 ... 166	1LA5183 ... 223	With add. charge		1 –								
			IM V3 <sup>3)</sup>							4	1LA7060 ... 166	–	With add. charge		1 –								
										4	–	1LA5183 ... 223	With add. charge		9 M1G								
			IM V1 with protective cover <sup>3) 4)</sup>							4	1LA7060 ... 166	1LA5183 ... 223	With add. charge		4 –								
			IM B35							4	1LA7060 ... 166	1LA5183 ... 223	With add. charge		6 –								
With standard flange			IM B14, IM V19, IM V18 without protective cover							4	1LA7060 ... 166	–	With add. charge		2 –								
			IM B34							4	1LA7060 ... 166	–	With add. charge		7 –								
With special flange			IM B14, IM V19, IM V18 without protective cover							4	1LA7060 ... 166	–	With add. charge		3 –								
Further types of construction			For additional charges, code numbers and descriptions, see supplements and special versions.																				
<b>Special versions</b>																		Order code(s)					
Options			For additional charges, code numbers and descriptions, see supplements and special versions.													1LA . . . . . ■ -Z		. . . + . . . + . . . + . . .					

1) Operating values at rated output for 60 Hz are available on request.

2) For connection to 230 V, parallel feeders are necessary.

3) 1LA5 motors can be supplied as an option with two additional eyebolts – specify order code K32.

4) The "Second shaft extension" option, order code K16 is not possible.

# SIMOTICS GP 1LA Standard Motors

## Motors with Standard Efficiency IE1

### Self-ventilated motors Aluminum series 1LA7 and 1LA5

# IE1



#### Selection and ordering data (continued)

Operating values at rated output																Aluminum series			
$P_{rated, 50 Hz}$	$P_{rated, 60 Hz}$	Frame size	$n_{rated, 50 Hz}$	$T_{rated, 50 Hz}$	IE class	$\eta_{rated, 50 Hz, 4/4}$	$\eta_{rated, 50 Hz, 3/4}$	$\eta_{rated, 50 Hz, 2/4}$	$\cos\varphi_{rated, 50 Hz, 4/4}$	$I_{rated, 50 Hz, 400 V}$	$T_{LR}/T_{rated}$	$I_{LR}/I_{rated}$	$T_B/T_{rated}$	$L_{pfA, 50 Hz}$	$L_{WA, 50 Hz}$	1LA7/1LA5 – IE1 version in accordance with IEC 60034-30	$m_{IM B3}$	J	Torque class
kW	kW	FS	rpm	Nm	%	%	%		A						Successor 1LE1002	kg	kgm <sup>2</sup>	CL	
• Cooling: Self-ventilated (IC 411) • Efficiency: Standard Efficiency IE1, service factor (SF) 1.1 • Insulation: Thermal class 155 (temperature class F), IP55 degree of protection, utilization in accordance with thermal class 130 (temperature class B)																			
6-pole: 1000 rpm at 50 Hz, 1200 rpm at 60 Hz <sup>1)</sup>																			
0.09	0.10	63 M	850	1.0	–	50.2	48.7	44.2	0.66	0.39	1.8	2.0	1.9	39	50	1LA7063-6AB	4.0	0.00037	13
0.18	0.21	71 M	850	2.0	–	57.3	55.8	51.3	0.68	0.67	2.1	2.3	1.9	39	50	1LA7070-6AA	4.8	0.00055	16
0.25	0.29	71 M	860	2.8	–	61.9	60.4	55.9	0.76	0.77	2.2	2.7	2.0	39	50	1LA7073-6AA	5.8	0.00080	16
0.37	0.43	80 M	920	3.8	–	64.1	63.1	59.1	0.72	1.16	1.9	3.1	2.1	40	51	1LA7080-6AA	8.6	0.0014	16
0.55	0.63	80 M	910	5.8	–	67.5	67.0	63.5	0.74	1.59	2.1	3.4	2.2	40	51	1LA7083-6AA	9.8	0.0017	16
0.75	0.86	90 S	915	7.8	IE1	70.0	70.0	66.0	0.76	2.05	2.2	3.7	2.2	43	55	1LA7090-6AA	12.6	0.0024	16
1.1	1.27	90 L	915	11	IE1	72.9	72.9	69.9	0.77	2.85	2.3	3.8	2.3	43	55	1LA7096-6AA	15.7	0.0033	16
1.5	1.75	100 L	925	15	IE1	75.2	75.2	72.2	0.75	3.85	2.3	4.0	2.3	47	59	1LA7106-6AA	21	0.0047	16
2.2	2.55	112 M	940	22	IE1	77.7	78.2	75.2	0.78	5.2	2.2	4.6	2.5	52	64	1LA7113-6AA	26	0.0091	16
3	3.45	132 S	950	30	IE1	79.7	79.7	78.7	0.76	7.1	1.9	4.2	2.2	63	75	1LA7130-6AA	38	0.015	16
4	4.55	132 M	950	40	IE1	81.4	81.4	80.4	0.76	9.3	2.1	4.5	2.4	63	75	1LA7133-6AA	44	0.019	16
5.5	6.3	132 M	950	55	IE1	83.1	83.1	82.1	0.76	12.6	2.3	5.0	2.6	63	75	1LA7134-6AA	52	0.025	16
7.5	8.6	160 M	960	75	IE1	84.7	84.7	83.7	0.74	17.3	2.1	4.6	2.5	66	78	1LA7163-6AA	74	0.044	16
11	12.6	160 L	960	109	IE1	86.4	86.4	85.4	0.74	25	2.3	4.8	2.6	66	78	1LA7166-6AA	95	0.063	16
15	18	180 L	970	148	IE1	87.7	87.7	86.7	0.77	32	2.0	5.2	2.4	66	78	1LA5186-6AA	126	0.15	16
18.5	22	200 L	975	181	IE1	88.6	88.6	87.6	0.77	39	2.7	5.5	2.8	66	78	1LA5206-6AA	161	0.24	16
22	26.5	200 L	975	215	IE1	89.2	89.2	88.2	0.77	46	2.8	5.5	2.9	66	78	1LA5207-6AA	183	0.28	16
30	36	225 M	978	293	IE1	90.2	90.2	89.2	0.77	62 <sup>2)</sup>	2.8	5.7	2.9	66	78	1LA5223-6AA	214	0.36	16
Voltages				No. of poles	Motor type 1LA7	Motor type 1LA5	Version	Order code(s)											
50 Hz	230 VΔ/400 VY	60 Hz <sup>1)</sup>	460 VY	6	1LA7063 ... 166	1LA5186 ... 223	Standard	1	–										
50 Hz	400 VΔ/690 VY	60 Hz <sup>1)</sup>	460 VΔ	6	1LA7063 ... 166	1LA5186 ... 223	Standard	6	–										
50 Hz	500 VY			6	1LA7063 ... 166	1LA5186 ... 223	Without add. charge	3	–										
50 Hz	500 VΔ			6	1LA7106 ... 166	1LA5186 ... 223	Without add. charge	5	–										
Further voltages <sup>1)</sup>				For additional charges, code numbers and descriptions, see supplements and special versions.				9	...										
Types of construction				No. of poles	Motor type 1LA7	Motor type 1LA5	Version	Order code(s)											
Without flange		IM B3/6/7/8, IM V6, IM V5 without protective cover		6	1LA7063 ... 166	1LA5186 ... 223	Standard	0	–										
With flange		IM B5, IM V1 without protective cover <sup>3)</sup>		6	1LA7063 ... 166	1LA5186 ... 223	With add. charge	1	–										
		IM V3 <sup>3)</sup>		6	1LA7063 ... 166	–	With add. charge	1	–										
		IM V1 with protective cover <sup>3) 4)</sup>		6	–	1LA5186 ... 223	With add. charge	9	M1G										
		IM B35		6	1LA7063 ... 166	1LA5186 ... 223	With add. charge	4	–										
With standard flange		IM B14, IM V19, IM V18 without protective cover		6	1LA7063 ... 166	–	With add. charge	6	–										
		IM B34		6	1LA7063 ... 166	–	With add. charge	2	–										
With special flange		IM B14, IM V19, IM V18 without protective cover		6	1LA7063 ... 166	–	With add. charge	7	–										
				6	1LA7063 ... 166	–	With add. charge	3	–										
Further types of construction				For additional charges, code numbers and descriptions, see supplements and special versions.				9	...										
Special versions				Order code(s)															
Options				For additional charges, code numbers and descriptions, see supplements and special versions.				1LA ... -Z	...+...+...+...										

<sup>1)</sup> Operating values at rated output for 60 Hz are available on request.

<sup>2)</sup> For connection to 230 V, parallel feeders are necessary.

<sup>3)</sup> 1LA5 motors can be supplied as an option with two additional eyebolts – specify order code K32.

<sup>4)</sup> The "Second shaft extension" option, order code K16 is not possible.



IE1

# SIMOTICS GP 1LA Standard Motors

## Motors with Standard Efficiency IE1

Self-ventilated motors  
Aluminum series 1LA7 and 1LA5

### Selection and ordering data (continued)

Operating values at rated output															Aluminum series				
$P_{rated}$ , 50 Hz	$P_{rated}$ , 60 Hz 1)	Frame size	$n_{rated}$ , 50 Hz	$T_{rated}$ , 50 Hz	IE class	$\eta_{rated}$ , 50 Hz, 4/4	$\eta_{rated}$ , 50 Hz, 3/4	$\eta_{rated}$ , 50 Hz, 2/4	$\cos\phi$ rated, 50 Hz, 4/4	$I_{rated}$ , 50 Hz, 400 V	$T_{LR}/$ $T_{rated}$	$I_{LR}/$ $I_{rated}$	$T_B/$ $T_{rated}$	$L_{pIA}$ , 50 Hz	$L_{WA}$ , 50 Hz	1LA7/1LA5 – IE1 version in accordance with IEC 60034-30 Order No.	$m_{IM B3}$ J	Torque class	
kW	kW	FS	rpm	Nm	%	%	%		A				dB(A)	dB(A)	Successor 1LE1002	kg	kgm <sup>2</sup>	CL	
<ul style="list-style-type: none"> <li>Cooling: Self-ventilated (IC 411)</li> <li>Efficiency: Standard Efficiency IE1, service factor (SF) 1.1</li> <li>Insulation: Thermal class 155 (temperature class F), IP55 degree of protection, utilization in accordance with thermal class 130 (temperature class B)</li> </ul>																			
8-pole: 750 rpm at 50 Hz, 900 rpm at 60 Hz <sup>1)</sup>																			
0.09	0.104	71 M	630	1.4	–	51.0	49.5	45.0	0.68	0.38	1.9	2.2	1.7	36	47	1LA7070-8AB	5.8	0.00080	13
0.12	0.14	71 M	645	1.8	–	51.0	49.5	45.0	0.64	0.53	2.2	2.2	2.0	36	47	1LA7073-8AB	5.8	0.00080	13
0.18	0.21	80 M	675	2.5	–	49.0	47.5	43.0	0.68	0.78	1.7	2.3	1.9	41	52	1LA7080-8AB	8.8	0.0014	13
0.25	0.29	80 M	685	3.5	–	53.0	51.5	47.0	0.64	1.06	2.0	2.6	2.2	41	52	1LA7083-8AB	9.9	0.0017	13
0.37	0.43	90 S	675	5.2	–	61.0	59.5	55.0	0.75	1.17	1.6	2.9	1.8	41	53	1LA7090-8AB	11	0.0023	13
0.55	0.63	90 L	675	7.8	–	64.0	63.0	59.0	0.76	1.63	1.7	3.0	1.9	41	53	1LA7096-8AB	12.6	0.0031	13
0.75	0.86	100 L	680	11	–	64.0	63.0	59.0	0.76	2.25	1.6	3.0	1.9	45	57	1LA7106-8AB	19	0.0051	13
1.1	1.27	100 L	680	15	–	70.0	70.0	66.0	0.76	3.0	1.8	3.3	2.1	45	57	1LA7107-8AB	21.5	0.0063	13
1.5	1.75	112 M	705	20	–	72.1	72.1	68.1	0.76	3.95	1.8	3.7	2.1	49	61	1LA7113-8AB	24	0.013	13
2.2	2.55	132 S	700	30	–	73.2	73.2	70.2	0.74	5.9	1.9	3.9	2.3	53	65	1LA7130-8AB	38	0.014	13
3	3.45	132 M	700	41	–	75.2	75.2	72.2	0.74	7.8	2.1	4.1	2.4	53	65	1LA7133-8AB	44	0.019	13
4	4.55	160 M	715	53	–	78.3	78.8	75.8	0.72	10.2	2.2	4.5	2.6	63	75	1LA7163-8AB	64	0.036	13
5.5	6.3	160 M	710	74	–	81.9	81.9	80.9	0.73	13.3	2.3	4.7	2.7	63	75	1LA7164-8AB	74	0.046	13
7.5	8.6	160 L	715	100	–	83.9	83.9	82.9	0.72	17.9	2.7	5.3	3.0	63	75	1LA7166-8AB	94	0.064	13
11	13.2	180 L	725	145	–	85.5	85.5	84.5	0.75	25	2.0	5.0	2.2	60	73	1LA5186-8AB	128	0.21	13
15	18	200 L	725	198	–	86.1	86.1	85.1	0.78	32	2.1	5.0	2.2	58	71	1LA5207-8AB	176	0.37	13
18.5	22	225 S	725	244	–	87.8	87.8	86.8	0.79	38.5	2.1	4.5	2.2	58	71	1LA5220-8AB	184	0.37	13
22	26.5	225 M	725	290	–	89.3	89.3	88.3	0.79	45	2.2	4.8	2.3	58	71	1LA5223-8AB	214	0.45	13
<b>Voltages</b>									No. of poles	Motor type 1LA7	Motor type 1LA5	Version			Order code(s)				
50 Hz	230 VΔ/400 VY	60 Hz <sup>1)</sup>	460 VY			8	1LA7063 ... 166	1LA5186 ... 223	Standard	1	–								
50 Hz	400 VΔ/690 VY	60 Hz <sup>1)</sup>	460 VΔ			8	1LA7063 ... 166	1LA5186 ... 223	Standard	6	–								
50 Hz	500 VY					8	1LA7063 ... 166	1LA5186 ... 223	Without add. charge	3	–								
50 Hz	500 VΔ					8	1LA7106 ... 166	1LA5186 ... 223	Without add. charge	5	–								
Further voltages <sup>1)</sup>		For additional charges, code numbers and descriptions, see supplements and special versions.																	
<b>Types of construction</b>									No. of poles	Motor type 1LA7	Motor type 1LA5	Version			Order code(s)				
Without flange			IM B3/6/7/8, IM V6, IM V5 without protective cover			8	1LA7063 ... 166	1LA5186 ... 223	Standard	0	–								
With flange			IM B5, IM V1 without protective cover <sup>2)</sup>			8	1LA7063 ... 166	1LA5186 ... 223	With add. charge	1	–								
			IM V3 <sup>2)</sup>			8	1LA7063 ... 166	–	With add. charge	1	–								
			IM V1 with protective cover <sup>2)3)</sup>			8	–	1LA5186 ... 223	With add. charge	9	M1G								
			IM B35			8	1LA7063 ... 166	1LA5186 ... 223	With add. charge	4	–								
With standard flange			IM B14, IM V19, IM V18 without protective cover			8	1LA7063 ... 166	–	With add. charge	6	–								
			IM B34			8	1LA7063 ... 166	–	With add. charge	2	–								
With special flange			IM B14, IM V19, IM V18 without protective cover			8	1LA7063 ... 166	–	With add. charge	7	–								
Further types of construction		For additional charges, code numbers and descriptions, see supplements and special versions.																	
<b>Special versions</b>															Order code(s)				
Options		For additional charges, code numbers and descriptions, see supplements and special versions.													1LA ... - ...	-Z	...+...+...+...		

1) Operating values at rated output for 60 Hz are available on request.

3) The "Second shaft extension" option, order code K16 is not possible.

2) 1LA5 motors can be supplied as an option with two additional eyebolts – specify order code K32.