

SIEMENS
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Technical data

Selection data, synchronous-reluctance drive system with SINAMICS G120 for 50 Hz and 400 V line voltage



SIMOTICS reluctance motor (VSD4000 line)

SINAMICS G120 frequency converter

Rated power (kW)	Frame size	Torque (Nm)	Rated current (A)	Rated speed (rpm)	Max. speed SIMOTICS GP/ SIMOTICS SD (rpm)	Motor code	Motor Article No.			Frame size	Power Module Article No.*		
							1FP1	5	14-...		A	6SL3210-1PE...	■
0.55	80M	3.5	1.6	1,500	3,200/3,200	60017	1FP1	■	14-0DB22-1 ...	A	6SL3210-1PE11-8	■	L1
		4.8	2.2	1,500	3,200/3,200	60018	1FP1	■	14-0DB32-1 ...				
0.75	80M	2.4	2.1	3,000	- /6,000	60019	1FP1	5	14-ODF22-1 ...	A	6SL3210-1PE12-3	■	L1
		7.0	2.8	1,500	3,200/3,200	60021	1FP1	■	14-0EB02-1 ...				
1.1	80M	3.5	3.0	3,000	- /6,000	60020	1FP1	5	14-ODF32-1 ...	A	6SL3210-1PE13-2	■	L1
		9.5	3.8	1,500	3,200/3,200	60022	1FP1	■	14-0EB42-1 ...				
1.5	90M	4.8	4.0	3,000	- /6,000	60023	1FP1	5	14-0EF02-1 ...	A	6SL3210-1PE14-3	■	L1
		14.0	5.3	1,500	3,200/3,200	60025	1FP1	■	14-1BB02-1 ...				
2.2	90L	7.0	5.8	3,000	- /6,000	60024	1FP1	5	14-0EF42-1 ...	A	6SL3210-1PE16-1	■	L1
		19.1	7.1	1,500	3,200/3,200	60026	1FP1	■	14-1BB12-1 ...				
3.0	112M	9.5	7.2	3,000	- /6,000	60027	1FP1	5	14-1BF12-1 ...	A	6SL3210-1PE18-0	■	L1
		25.5	10.0	1,500	3,200/3,200	60028	1FP1	■	14-1BB22-1 ...				
4.0	112M	12.7	9.8	3,000	- /6,000	60029	1FP1	5	14-1BF22-1 ...	A	6SL3210-1PE21-1	■	L0
		35.0	12.6	1,500	3,200/3,200	60030	1FP1	■	14-1CB02-1 ...				
5.5	132S	17.5	12.9	3,000	- /5,600	60032	1FP1	5	14-1CF02-1 ...	B	6SL3210-1PE21-4	■	L0



SIMOTICS reluctance motor (VSD4000 line)

SINAMICS G120 frequency converter

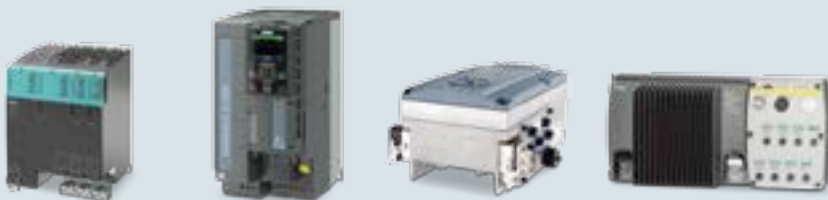
Rated power (kW)	Frame size	Torque (Nm)	Rated current (A)	Rated speed (rpm)	Max. speed SIMOTICS GP/ SIMOTICS SD (rpm)	Motor code	Motor Article No.			Frame size	Power Module Article No.*		
							1FP1	5					
7.5	132M	47.5	17.1	1,500	3,200/3,200	60031	1FP1	■	14-1CB22-1 ...	B	6SL3210-1PE21-8	■	LO
	132S	23.8	17.3	3,000	- / 5,600	60033		5	14-1CF12-1 ...				
11	160M	70.0	25.0	1,500	3,000/3,200	60034	1FP1	■	14-1DB22-1 ...	C	6SL3210-1PE22-7	■	LO
		35.0	24.5	3,000	- / 4,800	60036		5	14-1DF22-1 ...				
15	160L	95.0	34.0	1,500	3,000/3,200	60035	1FP1	■	14-1DB42-1 ...	C	6SL3210-1PE23-3	■	LO
	160M	47.5	34.0	3,000	- / 4,800	60037		5	14-1DF32-1 ...				
18.5	180M	118.0	42.0	1,500	2,610/3,000	60011	1FP1	■	14-1EB22-1 ...	D	6SL3210-1PE23-8	■	LO
	160L	59.0	41.5	3,000	- / 4,800	60038		5	14-1DF42-1 ...				
22	180L	140.0	49.0	1,500	2,610/3,000	60012	1FP1	■	14-1EB42-1 ...	D	6SL3210-1PE24-5	■	LO
		70.0	50.0	3,000	- / 4,600	60014		5	14-1EF22-1 ...				
30	200L	191.0	68.0	1,500	2,610/3,000	60013	1FP1	■	14-2AB52-1 ...	D	6SL3210-1PE26-0	■	LO
		96.0	68.0	3,000	- / 4,500	60015		5	14-2AF42-1 ...				
37	225S	235.0	79.0	1,500	- / 3,000	60039	1FP1	5	14-2BB02-1 ...	E	6SL3210-1PE28-8	■	LO
	200L	118.0	82.0	3,000	- / 4,500	60016			14-2AF52-1 ...				
45	225M	286.0	96.0	1,500	- / 3,000	60040	1FP1	5	14-2BB22-1 ...	E	6SL3210-1PE31-1	■	LO
		143.0	99.0	3,000	- / 4,500	60041			14-2BF22-1 ...				

Motor series	■
SIMOTICS GP – aluminum frame	0
SIMOTICS SD – cast iron frame	5

EMV filter	■
Non-filtered	U
Class A filter	A

* In addition to the Power Module, the Control Unit and possibly further components are required

Other converters in the SINAMICS family perfectly coordinated with the SIMOTICS reluctance motor:



SINAMICS S120 SINAMICS G120X SINAMICS G110M SINAMICS G120D

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