

Overview (continued)

Overview tables

The tables on the following pages provide an overview of all converters with associated line-side and load-side components, DC link components and the available Control Units with operator panels.

SINAMICS G120P Power Modules for use in building technology for heating, air-conditioning and ventilation applications, with degree of protection IP20, 380 to 480 V 3 AC

SINAMICS G120P									
Rated power ¹⁾		Rated out-put current ²⁾ <i>I</i> _{rated}	Power based on the base-load current <i>I</i> _H ³⁾		Base-load current ³⁾ <i>I</i> _H	Power Module			
400 V	460 V		400 V	460 V		Frame size	Type	Without integrated line filter	With integrated line filter Class A (Category C2)
kW	hp	A	kW	hp	A			Article No.	Article No.
0.37	0.5	1.3	0.25	0.33	0.9	FSA	PM230	6SL3210-1NE11-3UG1	6SL3210-1NE11-3AG1
0.55	0.5	1.7	0.37	0.33	1.3			6SL3210-1NE11-7UG1	6SL3210-1NE11-7AG1
0.75	0.75	2.2	0.55	0.5	1.7			6SL3210-1NE12-2UG1	6SL3210-1NE12-2AG1
1.1	1	3.1	0.75	0.75	2.2			6SL3210-1NE13-1UG1	6SL3210-1NE13-1AG1
1.5	2	4.1	1.1	1	3.1			6SL3210-1NE14-1UG1	6SL3210-1NE14-1AG1
2.2	3	5.9	1.5	1.5	4.1			6SL3210-1NE15-8UG1	6SL3210-1NE15-8AG1
3	3	7.7	2.2	3	5.9			6SL3210-1NE17-7UG1	6SL3210-1NE17-7AG1
4	5	10.2	3	3	7.7	FSB		6SL3210-1NE21-0UG1	6SL3210-1NE21-0AG1
5.5	7.5	13.2	4	5	10.2			6SL3210-1NE21-3UG1	6SL3210-1NE21-3AG1
7.5	10	18	5.5	5	13.2			6SL3210-1NE21-8UG1	6SL3210-1NE21-8AG1
11	15	26	7.5	10	18	FSC		6SL3210-1NE22-6UG1	6SL3210-1NE22-6AG1
15	15	32	11	15	26			6SL3210-1NE23-2UG1	6SL3210-1NE23-2AG1
18.5	20	38	15	15	32			6SL3210-1NE23-8UG1	6SL3210-1NE23-8AG1
22	25	45	18.5	20	38	FSD		6SL3210-1NE24-5UL0	6SL3210-1RN24-5AL0
30	30	60	22	25	45			6SL3210-1NE26-0UL0	6SL3210-1NE26-0AL0
37	40	75	30	30	60			6SL3210-1NE27-5UL0	6SL3210-1NE27-5AL0
45	50	90	37	40	75	FSE		6SL3210-1NE28-8UL0	6SL3210-1NE28-8AL0
55	60	110	45	50	90			6SL3210-1NE31-1UL0	6SL3210-1NE31-1AL0
75	75	145	55	60	110			6SL3210-1NE31-5UL0	6SL3210-1NE31-5AL0
Push Through									
3	3	7.7	2.2	3	5.9	FSA	PM230	6SL3211-1NE17-7UG1	6SL3211-1NE17-7AG1
7.5	10	18	5.5	5	13.2	FSB		6SL3211-1NE21-8UG1	6SL3211-1NE21-8AG1
18.5	20	38	15	15	32	FSC		6SL3211-1NE23-8UG1	6SL3211-1NE23-8AG1

¹⁾ Rated power based on the rated output current I_{rated} . The rated output current I_{rated} is based on the duty cycle for low overload (LO).

²⁾ The rated output current I_{rated} is based on the duty cycle for low overload (LO). These current values are valid for 400 V and are specified on the rating plate of the Power Module.

³⁾ The base-load current I_H is based on the duty cycle for high overload (HO).

SINAMICS G120P built-in and wall-mounted units

PM230 Power Modules, 0.37 kW to 90 kW

PM230 Power Modules

Selection and ordering data (continued)

PM230 Power Modules degree of protection IP20 Standard variant

Rated power ¹⁾		Rated output current ²⁾ <i>I</i> _{rated}	Power based on the base-load current ³⁾		Base-load current <i>I</i> _H ³⁾	Frame size	PM230 Power Module degree of protection IP20 Standard variant <u>without</u> integrated line filter		PM230 Power Module degree of protection IP20 Standard variant <u>with</u> integrated line filter class <u>A</u>	
400 V kW	460 V hp	A	400 V kW	460 V hp	A		Article No.		Article No.	
380 ... 480 V 3 AC										
0.37	0.5	1.3	0.25	0.33	0.9	FSA	NEW	6SL3210-1NE11-3UG1	NEW	6SL3210-1NE11-3AG1
0.55	0.5	1.7	0.37	0.33	1.3	FSA	NEW	6SL3210-1NE11-7UG1	NEW	6SL3210-1NE11-7AG1
0.75	0.75	2.2	0.55	0.5	1.7	FSA	NEW	6SL3210-1NE12-2UG1	NEW	6SL3210-1NE12-2AG1
1.1	1	3.1	0.75	0.75	2.2	FSA	NEW	6SL3210-1NE13-1UG1	NEW	6SL3210-1NE13-1AG1
1.5	2	4.1	1.1	1	3.1	FSA	NEW	6SL3210-1NE14-1UG1	NEW	6SL3210-1NE14-1AG1
2.2	3	5.9	1.5	1.5	4.1	FSA	NEW	6SL3210-1NE15-8UG1	NEW	6SL3210-1NE15-8AG1
3	3	7.7	2.2	3	5.9	FSA	NEW	6SL3210-1NE17-7UG1	NEW	6SL3210-1NE17-7AG1
4	5	10.2	3	3	7.7	FSB	NEW	6SL3210-1NE21-0UG1	NEW	6SL3210-1NE21-0AG1
5.5	7.5	13.2	4	5	10.2	FSB	NEW	6SL3210-1NE21-3UG1	NEW	6SL3210-1NE21-3AG1
7.5	10	18	5.5	5	13.2	FSB	NEW	6SL3210-1NE21-8UG1	NEW	6SL3210-1NE21-8AG1
11	15	26	7.5	10	18	FSC	NEW	6SL3210-1NE22-6UG1	NEW	6SL3210-1NE22-6AG1
15	15	32	11	15	26	FSC	NEW	6SL3210-1NE23-2UG1	NEW	6SL3210-1NE23-2AG1
18.5	20	38	15	15	32	FSC	NEW	6SL3210-1NE23-8UG1	NEW	6SL3210-1NE23-8AG1
22	25	45	18.5	20	38	FSD		6SL3210-1NE24-5UL0		6SL3210-1NE24-5AL0
30	30	60	22	25	45	FSD		6SL3210-1NE26-0UL0		6SL3210-1NE26-0AL0
37	40	75	30	30	60	FSE		6SL3210-1NE27-5UL0		6SL3210-1NE27-5AL0
45	50	90	37	40	75	FSE		6SL3210-1NE28-8UL0		6SL3210-1NE28-8AL0
55	60	110	45	50	90	FSF		6SL3210-1NE31-1UL0		6SL3210-1NE31-1AL0
75	75	145	55	60	110	FSF		6SL3210-1NE31-5UL0		6SL3210-1NE31-5AL0

PM230 Power Modules degree of protection IP20 Push Through variant

Rated power ¹⁾		Rated output current <i>I</i> _{rated} ²⁾	Power based on the base-load current ³⁾		Base-load current <i>I</i> _H ³⁾	Frame size	PM230 Power Module degree of protection IP20 Push Through variant <u>without</u> integrated line filter		PM230 Power Module degree of protection IP20 Push Through variant <u>with</u> integrated line filter class <u>A</u>	
400 V kW	460 V hp		400 V kW	460 V hp			A	Article No.	Article No.	
380 ... 480 V 3 AC										
3	3	7.7	2.2	3	5.9	FSA	NEW	6SL3211-1NE17-7UG1	NEW	6SL3211-1NE17-7AG1
7.5	10	18	5.5	5	13.2	FSB	NEW	6SL3211-1NE21-8UG1	NEW	6SL3211-1NE21-8AG1
18.5	20	38	15	15	32	FSC	NEW	6SL3211-1NE23-8UG1	NEW	6SL3211-1NE23-8AG1

Note:

The power data in hp units are based on the NEC/CEC standards for the North American market.

¹⁾ Rated power based on the rated output current I_{rated} . The rated output current I_{rated} is based on the duty cycle for low overload (LO).

²⁾ The rated output current I_{rated} is based on the duty cycle for low overload (LO). These current values are valid for 400 V and are specified on the rating plate of the Power Module.

³⁾ The base-load current I_H is based on the duty cycle for high overload (HO).