

Overview (continued)

SINAMICS G120P Power Modules for use in building technology for heating, air-conditioning and ventilation applications, with degree of protection IP55, 380 to 480 V 3 AC

SINAMICS G120P									
Rated power ¹⁾		Rated output current I_{rated} ²⁾ A	Power based on the base-load current I_H ³⁾		Base-load current I_H ³⁾ A	Power Module			
400 V	460 V		400 V	460 V		Frame size	Type	With integrated line filter class A (Category C2) Article No.	With integrated line filter class B (Category C1) Article No.
kW	hp		kW	hp					
0.37	0.5	1.3	0.25	0.33	0.9	FSA	PM230	6SL3223-0DE13-7AG1	6SL3223-0DE13-7BG1
0.55	0.5	1.7	0.37	0.33	1.3			6SL3223-0DE15-5AG1	6SL3223-0DE15-5BG1
0.75	0.75	2.2	0.55	0.5	1.7			6SL3223-0DE17-5AG1	6SL3223-0DE17-5BG1
1.1	1	3.1	0.75	0.75	2.2			6SL3223-0DE21-1AG1	6SL3223-0DE21-1BG1
1.5	2	4.1	1.1	1	3.1			6SL3223-0DE21-5AG1	6SL3223-0DE21-5BG1
2.2	3	5.9	1.5	1.5	4.1			6SL3223-0DE22-2AG1	6SL3223-0DE22-2BG1
3	3	7.7	2.2	3	5.9			6SL3223-0DE23-0AG1	6SL3223-0DE23-0BG1
4	5	10.2	3	3	7.7	FSB		6SL3223-0DE24-0AG1	6SL3223-0DE24-0BG1
5.5	7.5	13.2	4	5	10.2			6SL3223-0DE25-5AG1	6SL3223-0DE25-5BG1
7.5	10	18	5.5	5	13.2			6SL3223-0DE27-5AG1	6SL3223-0DE27-5BG1
11	15	26	7.5	10	18	FSC		6SL3223-0DE31-1AG1	6SL3223-0DE31-1BG1
15	15	32	11	15	26			6SL3223-0DE31-5AG1	6SL3223-0DE31-5BG1
18.5	20	38	15	15	32			6SL3223-0DE31-8AG1	–
						FSD		–	6SL3223-0DE31-8BA0
22	25	45	18.5	20	38			6SL3223-0DE32-2AA0	6SL3223-0DE32-2BA0
30	30	60	22	25	45			6SL3223-0DE33-0AA0	6SL3223-0DE33-0BA0
37	40	75	30	30	60	FSE		6SL3223-0DE33-7AA0	6SL3223-0DE33-7BA0
45	50	90	37	40	75			6SL3223-0DE34-5AA0	6SL3223-0DE34-5BA0
55	60	110	45	50	90	FSF		6SL3223-0DE35-5AA0	6SL3223-0DE35-5BA0
75	75	145	55	60	110			6SL3223-0DE37-5AA0	6SL3223-0DE37-5BA0
90	100	178	75	75	145			6SL3223-0DE38-8AA0	6SL3223-0DE38-8BA0

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

To ensure that a suitable Power Module is selected, the following currents should be used for applications:

- **Rated output current for applications with low overload (LO)**
- **Base-load current for applications with high overload (HO)**

With reference to the rated output current, the modules support at least 2-pole to 6-pole low-voltage motors, e.g. the SIMOTICS GP and SIMOTICS SD 1LE1 motor series. The rated power is merely a guide value. For a description of the overload performance, please refer to the general technical specifications of the Power Modules.

PM230 Power Modules degree of protection IP55/UL Type 12

Rated power ¹⁾		Rated output current I_{rated} ²⁾	Power based on the base-load current I_H ³⁾		Base-load current I_H ³⁾	Frame size	PM230 Power Module degree of protection IP55/ UL Type 12 ⁴⁾ with integrated line filter class <u>A</u>		PM230 Power Module degree of protection IP55/ UL Type 12 ⁴⁾ with integrated line filter class <u>B</u>	
400 V kW	460 V hp		400 V kW	460 V hp			Article No.	Article No.		
380 ... 480 V 3 AC										
0.37	0.5	1.3	0.25	0.33	0.9	FSA	NEW	6SL3223-0DE13-7AG1	NEW	6SL3223-0DE13-7BG1
0.55	0.5	1.7	0.37	0.33	1.3	FSA	NEW	6SL3223-0DE15-5AG1	NEW	6SL3223-0DE15-5BG1
0.75	0.75	2.2	0.55	0.5	1.7	FSA	NEW	6SL3223-0DE17-5AG1	NEW	6SL3223-0DE17-5BG1
1.1	1	3.1	0.75	0.75	2.2	FSA	NEW	6SL3223-0DE21-1AG1	NEW	6SL3223-0DE21-1BG1
1.5	2	4.1	1.1	1	3.1	FSA	NEW	6SL3223-0DE21-5AG1	NEW	6SL3223-0DE21-5BG1
2.2	3	5.9	1.5	1.5	4.1	FSA	NEW	6SL3223-0DE22-2AG1	NEW	6SL3223-0DE22-2BG1
3	3	7.7	2.2	3	5.9	FSA	NEW	6SL3223-0DE23-0AG1	NEW	6SL3223-0DE23-0BG1
4	5	10.2	3	3	7.7	FSB	NEW	6SL3223-0DE24-0AG1	NEW	6SL3223-0DE24-0BG1
5.5	7.5	13.2	4	5	10.2	FSB	NEW	6SL3223-0DE25-5AG1	NEW	6SL3223-0DE25-5BG1
7.5	10	18	5.5	5	13.2	FSB	NEW	6SL3223-0DE27-5AG1	NEW	6SL3223-0DE27-5BG1
11	15	26	7.5	10	18	FSC	NEW	6SL3223-0DE31-1AG1	NEW	6SL3223-0DE31-1BG1
15	15	32	11	15	26	FSC	NEW	6SL3223-0DE31-5AG1	NEW	6SL3223-0DE31-5BG1
18.5	20	38	15	15	32	FSC	NEW	6SL3223-0DE31-8AG1		–
						FSD		–		6SL3223-0DE31-8BA0
22	25	45	18.5	20	38	FSD		6SL3223-0DE32-2AA0		6SL3223-0DE32-2BA0
30	30	60	22	25	45	FSD		6SL3223-0DE33-0AA0		6SL3223-0DE33-0BA0
37	40	75	30	30	60	FSE		6SL3223-0DE33-7AA0		6SL3223-0DE33-7BA0
45	50	90	37	40	75	FSE		6SL3223-0DE34-5AA0		6SL3223-0DE34-5BA0
55	60	110	45	50	90	FSF		6SL3223-0DE35-5AA0		6SL3223-0DE35-5BA0
75	75	145	55	60	110	FSF		6SL3223-0DE37-5AA0		6SL3223-0DE37-5BA0
90	100	178	75	75	145	FSF		6SL3223-0DE38-8AA0		6SL3223-0DE38-8BA0

It is essential to plug on an operator panel or the blanking cover in order to achieve degree of protection IP54/IP55/UL Type 12.

For more information, see [Operator panels and Blanking cover for PM230 Power Modules](#) in section [Supplementary system components](#).

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).

⁴⁾ UL Type 12 only for frame sizes FSA to FSC