

1 SINAMICS G120 — selecting the power module and power-dependent options

PM240/PM240-2 power modules

What power is required? (LO = Low Overload; HO = High Overload) *Definition HO/LO see p.22*

PM240/PM240-2 Power Modules have an integrated braking chopper and are suitable for many applications in general machine building.

Is a filtered device of Class A required?

The integrated EMC filter (Class A filter) is required to maintain the cable-conducted interference voltages and the radiated disturbances for installations in compliance with EN 61800-3 Category C2.

Are additional external line filters required (for example to maintain ...)

The external EMC filter (Class B filter) is also used to maintain cable-conducted interference voltages for installations according to EN 61800-3 Category C1. An unfiltered PM240-2 must be selected when using a Class B filter.

1AC/3AC PM240-2/200V–240V +/-10 %

Rated power LO (kW)	Rated power (hp)	Output current LO (A) I _N	Output current HO (A) I _{CH}	Frame size	Unfiltered power modules (part number)	Integrated Class A filter power modules (part number)		Class A filter	Class B line filter
1AC / 3 AC 200V ... 240V									
0.55	0.75	3.2	2.3	FSA	6SL3210-1PB13-0UL0	6SL3210-1PB13-0AL0	The PM240-2 230V has now been completely selected.	integrated	–
0.75	1	4.2	3.2	FSA	6SL321□-1PB13-8UL0	6SL321□-1PB13-8AL0		integrated	–
1.1	1.5	6	4.2	FSB	6SL3210-1PB15-5UL0	6SL3210-1PB15-5AL0		integrated	–
1.5	2	7.4	6	FSB	6SL3210-1PB17-4UL0	6SL3210-1PB17-4AL0		integrated	–
2.2	3	10.4	7.4	FSB	6SL321□-1PB21-0UL0	6SL321□-1PB21-0AL0		integrated	–
3	4	13.6	10.4	FSC	6SL3210-1PB21-4UL0	6SL3210-1PB21-4AL0		integrated	–
4	5	17.5	13.6	FSC	6SL321□-1PB21-8UL0	6SL321□-1PB21-8AL0		integrated	–

3AC 200V ... 240V

5.5	7.5	22	17.5	FSC	6SL3210-1PC22-2UL0	6SL3210-1PC22-2AL0	The PM240-2 200V has now been completely selected.	integrated	–
7.5	10	28	22	FSC	6SL3210-1PC22-8UL0	6SL3210-1PC22-8AL0		integrated	–
11	15	42	35	FSD	6SL3210-1PC24-2UL0	–		–	–
15	20	54	42	FSD	6SL3210-1PC25-4UL0	–		–	–
18.5	25	68	54	FSD	6SL3210-1PC26-8UL0	–		–	–
22	30	80	68	FSE	6SL3210-1PC28-0UL0	–		–	–
30	40	104	80	FSE	6SL3210-1PC31-1UL0	–		–	–
37	50	130	104	FSF	6SL3210-1PC31-3UL0	–		–	–
45	60	154	130	FSF	6SL3210-1PC31-6UL0	–		–	–
55	60	178	154	FSF	6SL3210-1PC31-8UL0	–		–	–

3AC PM240/PM240-2/380V–480V +/-10 %

Rated power LO (kW)	Rated power (hp)	Output current LO (A)	Output current HO (A)	Frame size	Unfiltered power modules (part number)	Power modules with integrated Class A filter (part number)		Class A filter is already integrated in the filter device up to 132 kW (part number)	Class B line filter (sub-assembly) ³⁾ (part number)
0.55	0.75	1.7	1.3	FSA	6SL3210-1PE11-8UL1	6SL3210-1PE11-8AL1	The PM240 / PM240-2 480V has now been completely selected.	integrated	6SL3203-0BE17-7BA0
0.75	1	2.2	1.7	FSA	6SL3210-1PE12-3UL1	6SL3210-1PE12-3AL1		integrated	6SL3203-0BE17-7BA0
1.1	1.5	3.1	2.2	FSA	6SL3210-1PE13-2UL1	6SL3210-1PE13-2AL1		integrated	6SL3203-0BE17-7BA0
1.5	2	4.1	3.1	FSA	6SL3210-1PE14-3UL1	6SL3210-1PE14-3AL1		integrated	6SL3203-0BE17-7BA0
2.2	3	5.9	4.1	FSA	6SL3210-1PE16-1UL1	6SL3210-1PE16-1AL1		integrated	6SL3203-0BE17-7BA0
3	4	7.7	5.9	FSA	6SL3210-1PE18-0UL1	6SL321□-1PE18-0AL1		integrated	6SL3203-0BE17-7BA0
4	5	10.2	7.7	FSB	6SL321□-1PE21-1UL0	6SL3210-1PE21-1AL0		integrated	6SL3203-0BE21-8BA0
5.5	7.5	13.2	10.2	FSB	6SL3210-1PE21-4UL0	6SL3210-1PE21-4AL0		integrated	6SL3203-0BE21-8BA0
7.5	10	18	13.7	FSB	6SL321□-1PE21-8UL0	6SL321□-1PE21-8AL0		integrated	6SL3203-0BE21-8BA0
11	15	26	18	FSC	6SL3210-1PE22-7UL0	6SL3210-1PE22-7AL0		integrated	6SL3203-0BE23-8BA0
15	20	32	26	FSC	6SL321□-1PE23-3UL0	6SL321□-1PE23-3AL0		integrated	6SL3203-0BE23-8BA0
18.5	25	38	32	FSD	6SL3210-1PE23-8UL0	6SL3210-1PE23-8AL0		integrated	–
22	30	45	38	FSD	6SL3210-1PE24-5UL0	6SL3210-1PE24-5AL0		integrated	–
30	40	60	45	FSD	6SL3210-1PE26-0UL0	6SL3210-1PE26-0AL0		integrated	–
37	50	75	60	FSD	6SL3210-1PE27-5UL0	6SL3210-1PE27-5AL0		integrated	–
45	60	90	75	FSE	6SL3210-1PE28-8UL0	6SL3210-1PE28-8AL0		integrated	–
55	75	110	90	FSE	6SL3210-1PE31-1UL0	6SL3210-1PE31-1AL0		integrated	–
75	100	145	110	FSF	6SL3210-1PE31-5UL0	6SL3210-1PE31-5AL0		integrated	–
90	125	178	145	FSF	6SL3210-1PE31-8UL0	6SL3210-1PE31-8AL0		integrated	–
110	150	205	178	FSF	6SL3210-1PE32-1UL0	6SL3210-1PE32-1AL0		integrated	–
132	200	250	205	FSF	6SL3210-1PE32-5UL0	6SL3210-1PE32-5AL0		integrated	–
160	250	302	250	FSGX ²⁾	6SL3224-0XE41-3UA0	–		6SL3000-0BE34-4AA0	–
200	300	370	302	FSGX ²⁾	6SL3224-0XE41-6UA0	–		6SL3000-0BE34-4AA0	–
250	400	477	370	FSGX ²⁾	6SL3224-0XE42-0UA0	–		6SL3000-0BE36-0AA0	–

Heat sink version Standard Push-through

0 1

¹⁾ Frame size FSD–FSF—supplementary condition: only rated frequency—or less than the permissible max. output frequency 150 Hz

²⁾ A braking module is additionally required for frame size FSX: 6SL3300-1AE32-5AA0