

SIEMENS


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SINAMICS G120 Selection in four steps

The modular inverter system

Catalog
Add-On
D 31 AO

October
2014

Answers for industry.

What is your application?

Pumps, fans, compressors

The ideal Power Module for pump, fan or compressor applications

PM230 Power Modules (IP20)



General machinery construction

What are the requirements for the braking response of your machine?

Standard braking response with Braking Module

The ideal power module for standard applications in general machinery construction

PM240/PM240-2 Power Modules



Innovative braking response with regenerative feedback

The ideal Power Module for requirements with regenerative feedback

PM250 Power Modules



Step 2: Selection of the Power Module and optional power components

Based on: 3 AC 38

PM230 Power Modules (IP20)

What power is required?
(LO = Low Overload; HO = High Overload)

The SINAMICS G120 inverter system with the PM230 Power Module is ideally suited for pump, fan and compressor applications in the industrial environment, in the process industry, water industry, and in building automation (without integrated safety functions).

Rated power LO (kW)	Rated power (hp)	Output current LO (A)	Output current HO (A)	Size
0.37	0.5	1.3	0.9	FSA
0.55	0.75	1.7	1.3	FSA
0.75	1	2.2	1.7	FSA
1.1	1.5	3.1	2.2	FSA
1.5	2	4.1	3.1	FSA
2.2	3	5.9	4.1	FSA
3	4	7.7	5.9	FSA
4	5	10.2	7.7	FSB
5.5	7.5	13.2	10.2	FSB
7.5	10	18	13.2	FSB
11	15	26	18	FSC
15	20	32	26	FSC
18.5	25	38	32	FSC
22	30	45	38	FSD
30	40	60	45	FSD
37	50	75	60	FSE
45	60	90	75	FSE
55	75	110	90	FSF
75	100	145	110	FSF

Is a filtered device of class A required?

The integrated EMC filter (filter class A) is required, in particular, for compliance with conducted interference and radiated interference for installations acc. to EN 61800-3 category C2.

Unfiltered (Article number)	Integrated filter A (Article number)
6SL3210-1NE11-3UL1	6SL3210-1NE11-3AL1
6SL3210-1NE11-7UL1	6SL3210-1NE11-7AL1
6SL3210-1NE12-2UL1	6SL3210-1NE12-2AL1
6SL3210-1NE13-1UL1	6SL3210-1NE13-1AL1
6SL3210-1NE14-1UL1	6SL3210-1NE14-1AL1
6SL3210-1NE15-8UL1	6SL3210-1NE15-8AL1
6SL3210-1NE17-7UL1	6SL3210-1NE17-7AL1
6SL3210-1NE21-0UL1	6SL3210-1NE21-0AL1
6SL3210-1NE21-3UL1	6SL3210-1NE21-3AL1
6SL3210-1NE21-8UL1	6SL3210-1NE21-8AL1
6SL3210-1NE22-6UL1	6SL3210-1NE22-6AL1
6SL3210-1NE23-2UL1	6SL3210-1NE23-2AL1
6SL3210-1NE23-8UL1	6SL3210-1NE23-8AL1
6SL3210-1NE24-5UL0	6SL3210-1NE24-5AL0
6SL3210-1NE26-0UL0	6SL3210-1NE26-0AL0
6SL3210-1NE27-5UL0	6SL3210-1NE27-5AL0
6SL3210-1NE28-8UL0	6SL3210-1NE28-8AL0
6SL3210-1NE31-1UL0	6SL3210-1NE31-1AL0
6SL3210-1NE31-5UL0	6SL3210-1NE31-5AL0

Heat sink variant 0 = Standard 1 = Push-through

Are further ex (e.g. for comp

The integrated in particular, fo for installations

RFI filter integrated in

Selection of the PM230 is now complete.

PM240/PM240-2 Power Modules

What power is required?
(LO = Low Overload; HO = High Overload)

PM240/PM240-2 Power Modules have a braking chopper and are suitable for a large number of applications in general machinery construction.

Rated power LO (kW)	Rated power (hp)	Output current LO (A)	Output current HO (A)	Size
0.55	0.75	1.7	1.3	FSA
0.75	1	2.2	1.7	FSA
1.1	1.5	3.1	2.2	FSA
1.5	2	4.1	3.1	FSA
2.2	3	5.9	4.1	FSA
3	4	7.7	5.9	FSA
4	5	10.2	7.7	FSB
5.5	7.5	13.2	10.2	FSB
7.5	10	18	13.7	FSB
11	15	26	18	FSC
15	20	32	26	FSC
18.5	25	38	32	FSD
22	30	45	38	FSD
30	40	60	45	FSD
37	50	75	60	FSE
45	60	90	75	FSE
55	75	110	90	FSF
75	100	145	110	FSF
90	125	178	145	FSF
110	150	205	178	FSF
132	200	250	205	FSF
160	250	302	250	FSGX
200	300	370	302	FSGX
250	400	477	370	FSGX

Is a filtered device of class A required?

The integrated EMC filter (filter class A) is required, in particular, for compliance with conducted interference and radiated interference for installations acc. to EN 61800-3 category C2.

Unfiltered (Article number)	Integrated filter A (Article number)
6SL3210-1PE11-8UL1	6SL3210-1PE11-8AL1
6SL3210-1PE12-3UL1	6SL3210-1PE12-3AL1
6SL3210-1PE13-2UL1	6SL3210-1PE13-2AL1
6SL3210-1PE14-3UL1	6SL3210-1PE14-3AL1
6SL3210-1PE16-1UL1	6SL3210-1PE16-1AL1
6SL3210-1PE18-0UL1	6SL3210-1PE18-0AL1
6SL3210-1PE21-1UL0	6SL3210-1PE21-1AL0
6SL3210-1PE21-4UL0	6SL3210-1PE21-4AL0
6SL3210-1PE21-8UL0	6SL3210-1PE21-8AL0
6SL3210-1PE22-7UL0	6SL3210-1PE22-7AL0
6SL3210-1PE23-3UL0	6SL3210-1PE23-3AL0
6SL3224-0BE31-5UA0	6SL3224-0BE31-5AA0
6SL3224-0BE31-8UA0	6SL3224-0BE31-8AA0
6SL3224-0BE32-2UA0	6SL3224-0BE32-2AA0
6SL3224-0BE33-0UA0	6SL3224-0BE33-0AA0
6SL3224-0BE33-7UA0	6SL3224-0BE33-7AA0
6SL3224-0BE34-5UA0	6SL3224-0BE34-5AA0
6SL3224-0BE35-5UA0	6SL3224-0BE35-5AA0
6SL3224-0BE37-5UA0	6SL3224-0BE37-5AA0
6SL3224-0BE38-8UA0	-
6SL3224-0BE41-1UA0	-
6SL3224-0XE41-3UA0	-
6SL3224-0XE41-6UA0	-
6SL3224-0XE42-0UA0	-

Heat sink variant 0 = Standard 1 = Push-through

Are further ex (e.g. for comp

The additional in particular, fo for installations

Filter class A into the filter

PM240-2

PM240

Selection of the PM240/PM240-2 is now complete.

PM250 Power Modules

What power is required?
(LO = Low Overload; HO = High Overload)

PM250 Power Modules feature integrated regenerative feedback. This means that the braking energy generated is directly fed back into the line supply (four quadrant applications – a braking chopper is not required).

Rated power LO (kW)	Rated power (hp)	Output current LO (A)	Output current HO (A)	Size
7.5	10	18	13.2	FSC
11	15	25	19	FSC
15	20	32	26	FSC
18.5	25	38	32	FSD
22	30	45	38	FSD
30	40	60	45	FSD
37	50	75	60	FSE
45	60	90	75	FSE
55	75	110	90	FSF
75	100	145	110	FSF
90	125	178	145	FSF

Is a filtered device of class A required?

The integrated EMC filter (filter class A) is required, in particular, for compliance with conducted interference and radiated interference for installations acc. to EN 61800-3 category C2.

Unfiltered (Article number)	Integrated filter (Article number)
-	6SL3225-0BE25-5AA1
-	6SL3225-0BE27-5AA1
-	6SL3225-0BE31-1AA1
6SL3225-0BE31-5UA0	6SL3225-0BE31-5AA0
6SL3225-0BE31-8UA0	6SL3225-0BE31-8AA0
6SL3225-0BE32-2UA0	6SL3225-0BE32-2AA0
6SL3225-0BE33-0UA0	6SL3225-0BE33-0AA0
6SL3225-0BE33-7UA0	6SL3225-0BE33-7AA0
6SL3225-0BE34-5UA0	6SL3225-0BE34-5AA0
6SL3225-0BE35-5UA0	6SL3225-0BE35-5AA0
6SL3225-0BE37-5UA0	6SL3225-0BE37-5AA0

Selection of the PM250 is now complete.

Are further ex (e.g. for comp

The additional in particular, fo for installations

RFI filter integrated in

Internal line filters required (interference reasons)?

EMC filter (filter class B) is required, for compliance with conducted interference acc. to EN 61800-3 category C1.

A line reactor is not required and must not be used in conjunction with a PM230 Power Module

Does the application require use of a braking resistor?

Braking resistors are not available for the PM23 Power Module and must not be used.

Should output filters be used, for example, to permit the use of longer motor cables?

Output reactors reduce the voltage loading of the motor winding. The cable lengths between the inverter and the motor can be increased.

Sine-wave filters limit the voltage gradient and the capacitive charge/discharge currents. An output reactor is not required.

Is a shield plate required for the Power Module?

The shield connection kit makes it easier to connect the shields of supply and control cables, provides mechanical strain relief and ensures optimum EMC performance.

Line filter class A is already installed on the filtered device	Line filter class B (Article number)	Line reactor (Article number)
-	6SL3203-0BE17-7BA0	-
-	6SL3203-0BE17-7BA0	-
-	6SL3203-0BE17-7BA0	-
-	6SL3203-0BE17-7BA0	-
-	6SL3203-0BE17-7BA0	-
-	6SL3203-0BE17-7BA0	-
-	6SL3203-0BE21-8BA0	-
-	6SL3203-0BE21-8BA0	-
-	6SL3203-0BE21-8BA0	-
-	6SL3203-0BE21-8BA0	-
-	6SL3203-0BE23-8BA0	-
-	6SL3203-0BE23-8BA0	-
-	6SL3203-0BE23-8BA0	-
-	6SL3203-0BE27-5BA0	-
-	6SL3203-0BE27-5BA0	-
-	6SL3203-0BE31-1BA0	-
-	6SL3203-0BE31-1BA0	-
-	6SL3203-0BE31-8BA0	-
-	6SL3203-0BE31-8BA0	-

Braking resistors (Article number)
-
-
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-
-
-
-
-

Output reactor (Article number)	Sine-wave filter (Article number)
6SL3202-0AE16-1CA0	-
6SL3202-0AE16-1CA0	-
6SL3202-0AE16-1CA0	-
6SL3202-0AE16-1CA0	-
6SL3202-0AE16-1CA0	-
6SL3202-0AE16-1CA0	-
6SL3202-0AE18-8CA0	-
6SL3202-0AE21-8CA0	-
6SL3202-0AE21-8CA0	-
6SL3202-0AE21-8CA0	-
6SL3202-0AE23-8CA0	-
6SL3202-0AE23-8CA0	-
6SL3202-0AE23-8CA0	-
6SE6400-3TC03-8DD0	6SL3202-0AE24-6SA0
6SE6400-3TC05-4DD0	6SL3202-0AE26-2SA0
6SE6400-3TC08-0ED0	6SL3202-0AE28-8SA0
6SE6400-3TC07-5ED0	6SL3202-0AE28-8SA0
6SE6400-3TC14-5FD0	6SL3202-0AE31-5SA0
6SE6400-3TC15-4FD0	6SL3202-0AE31-5SA0

PM shield plate (Article number)
included
included
included
included
included
included
included
included
included
included
included
included
6SL3262-1AD00-0DA0
6SL3262-1AD00-0DA0
6SL3262-1AD00-0DA0
6SL3262-1AD00-0DA0
6SL3262-1AF00-0DA0
6SL3262-1AF00-0DA0

Internal line filters required (interference reasons)?

EMC filter (filter class B) is required, for compliance with conducted interference acc. to EN 61800-3 category C1.

Line reactors: for smoothing voltage peaks, bridging commutation gaps and reducing the effects of harmonics on the inverter and line supply.

Does the application require use of a braking resistor?

The excess energy of the DC link is dissipated via the braking resistor. Braking Modules are already integrated in sizes A to F (electronic switch).

Should output filters be used, for example, to permit the use of longer motor cables?

Output reactors reduce the voltage stress on the motor winding. The cable lengths between inverter and motor can be extended.

Sine-wave filters limit the voltage gradient and the capacitive charge/discharge currents. An output reactor is not required.

Is a shield plate required for the Power Module?

The shield connection kit makes it easier to connect the shields of supply and control cables, provides mechanical strain relief and ensures optimum EMC performance (already enclosed in PM240-2).

Line filter class A is already installed on the filtered device up to 90 kW	Line filter class B (Article number)	Line reactor (Article number)
-	6SL3203-0BE17-7BA0	6SL3203-0CE13-2AA0
-	6SL3203-0BE17-7BA0	6SL3203-0CE13-2AA0
-	6SL3203-0BE17-7BA0	6SL3203-0CE13-2AA0
-	6SL3203-0BE17-7BA0	6SL3203-0CE21-0AA0
-	6SL3203-0BE17-7BA0	6SL3203-0CE21-0AA0
-	6SL3203-0BE21-8BA0	6SL3203-0CE21-0AA0
-	6SL3203-0BE21-8BA0	6SL3203-0CE21-0AA0
-	6SL3203-0BE21-8BA0	6SL3203-0CE21-8AA0
-	6SL3203-0BE21-8BA0	6SL3203-0CE21-8AA0
-	6SL3203-0BE23-8BA0	6SL3203-0CE23-8AA0
-	6SL3203-0BE23-8BA0	6SL3203-0CE23-8AA0
-	-	6SL3203-0CD24-5AA0
-	-	6SL3203-0CD24-5AA0
-	-	6SL3203-0CD25-3AA0
-	-	6SL3203-0CI28-6AA0
-	-	6SL3203-0CI28-6AA0
-	-	6SE6400-3CC11-2FD0
-	-	6SE6400-3CC11-2FD0
-	-	6SE6400-3CC11-7FD0
6SL3203-0BE32-5AA0	-	6SL3000-0CE32-3AA0
6SL3203-0BE32-5AA0	-	6SL3000-0CE32-8AA0
6SL3203-0BE36-0AA0	-	6SL3000-0CE33-3AA0
6SL3203-0BE36-0AA0	-	6SL3000-0CE35-1AA0
6SL3203-0BE36-0AA0	-	6SL3000-0CE35-1AA0

Braking resistors (Article number)
6SL3201-0BE14-3AA0
6SL3201-0BE14-3AA0
6SL3201-0BE14-3AA0
6SL3201-0BE14-3AA0
6SL3201-0BE21-0AA0
6SL3201-0BE21-0AA0
6SL3201-0BE21-0AA0
6SL3201-0BE21-0AA0
6SL3201-0BE21-8AA0
6SL3201-0BE21-8AA0
6SL3201-0BE23-8AA0
6SL3201-0BE23-8AA0
6SE6400-4BD21-2DA0
6SE6400-4BD21-2DA0
6SE6400-4BD22-2EA1
6SE6400-4BD22-2EA1
6SE6400-4BD24-0FA0
6SE6400-4BD24-0FA0
6SE6400-4BD24-0FA0
6SE6400-4BD24-0FA0
6SE6400-4BD26-0FA0
6SE6400-4BD26-0FA0
6SL3000-1BE31-3AA0
6SL3000-1BE32-5AA0
6SL3000-1BE32-5AA0

Output reactor (Article number)	Sine-wave filter (Article number)
6SL3202-0AE16-1CA0	*
6SL3202-0AE16-1CA0	*
6SL3202-0AE16-1CA0	*
6SL3202-0AE16-1CA0	*
6SL3202-0AE18-8CA0	*
6SL3202-0AE21-8CA0	*
6SL3202-0AE21-8CA0	*
6SL3202-0AE21-8CA0	*
6SL3202-0AE23-8CA0	*
6SL3202-0AE23-8CA0	*
6SL3202-0AE23-8CA0	*
6SE6400-3TC05-4DD0	6SL3202-0AE24-6SA0
6SE6400-3TC03-8DD0	6SL3202-0AE26-2SA0
6SE6400-3TC05-4DD0	6SL3202-0AE26-2SA0
6SE6400-3TC08-0ED0	6SL3202-0AE28-8SA0
6SE6400-3TC07-5ED0	6SL3202-0AE28-8SA0
6SE6400-3TC14-5FD0	6SL3202-0AE31-5SA0
6SE6400-3TC15-4FD0	6SL3202-0AE31-5SA0
6SE6400-3TC14-5FD0	6SL3202-0AE31-5SA0
6SL3000-2BE32-1AA0	6SL3000-2CE32-3AA0
6SL3000-2BE32-6AA0	6SL3000-2CE32-3AA0
6SL3000-2BE33-2AA0	6SL3000-2CE32-8AA0
6SL3000-2BE33-8AA0	6SL3000-2CE33-3AA0
6SL3000-2BE35-0AA0	6SL3000-2CE34-1AA0

PM shield plate (Article number)
included
included
included
included
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included
6SL3262-1AD00-0DA0
6SL3262-1AD00-0DA0
6SL3262-1AD00-0DA0
6SL3262-1AD00-0DA0
6SL3262-1AF00-0DA0
6SL3262-1AF00-0DA0
6SL3262-1AF00-0DA0
6SL3262-1AF00-0DA0
6SL3262-1AF00-0DA0

For size FSGX, a Braking Module is also required: 6SL3300-1AE32-5AA0

* = When sine-wave filters are required, the PM240 Power Module must be used.

Internal line filters required (interference reasons)?

EMC filter (filter class B) is required, in compliance with conducted interference acc. to EN 61800-3 category C1.

A line reactor is not required and must not be used in conjunction with the PM250.

Does the application require use of a braking resistor?

The PM250 can feed energy back into the supply. A braking resistor is not required and must not be used.

Output reactors reduce the voltage stress on the motor winding. The cable lengths between the inverter and motor can be extended.

Output reactors reduce the voltage stress on the motor winding. The cable lengths between the inverter and motor can be extended.

Sine-wave filters limit the voltage gradient and the capacitive charge/discharge currents. An output reactor is not required.

Is a shield plate required for the Power Module?

The shield connection kit makes it easier to connect the shields of supply and control cables, provides mechanical strain relief and ensures optimum EMC performance.

Line filter class A is already installed on the filtered device	Line filter class B (Article number)	Line reactor (Article number)
-	6SL3203-0BD23-8SA0	-
-	6SL3203-0BD23-8SA0	-
-	6SL3203-0BD23-8SA0	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Braking resistors (Article number)
-
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Output reactor (Article number)	Sine-wave filter (Article number)
6SL3202-0AJ23-2CA0	6SL3202-0AE22-0SA0
6SL3202-0AJ23-2CA0	6SL3202-0AE23-3SA0
6SL3202-0AJ23-2CA0	6SL3202-0AE23-3SA0
6SE6400-3TC05-4DD0	6SL3202-0AE24-6SA0
6SE6400-3TC03-8DD0	6SL3202-0AE24-6SA0
6SE6400-3TC05-4DD0	6SL3202-0AE26-2SA0
6SE6400-3TC08-0ED0	6SL3202-0AE28-8SA0
6SE6400-3TC07-5ED0	6SL3202-0AE28-8SA0
6SE6400-3TC14-5FD0	6SL3202-0AE31-5SA0
6SE6400-3TC15-4FD0	6SL3202-0AE31-5SA0
6SE6400-3TC14-5FD0	6SL3202-0AE31-5SA0

PM shield plate (Article number)
6SL3262-1AC00-0DA0
6SL3262-1AC00-0DA0
6SL3262-1AC00-0DA0
6SL3262-1AD00-0DA0
6SL3262-1AD00-0DA0
6SL3262-1AD00-0DA0
6SL3262-1AD00-0DA0
6SL3262-1AD00-0DA0
6SL3262-1AD00-0DA0
6SL3262-1AF00-0DA0
6SL3262-1AF00-0DA0
6SL3262-1AF00-0DA0

Continue with Step 3: "Selection of the Control Unit"

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Step 3: Selection of the Control Unit

See Catalog D 31 chapter "SINAMICS G120 standard inverters"



CU250S-2 Control Unit

Is an encoder required?
Is integrated positioning capability required?

NO

YES
(EPos positioning functionality through extended function license)

Is integrated safety technology required?

NO

YES

STO (Safe Torque Off)

STO (Safe Torque Off)
SS1 (Safe Stop 1)
SLS (Safely-Limited Speed)
SSM (Safe Speed Monitor)
SDI (Safe Direction)

STO (Safe Torque Off)
SS1 (Safe Stop 1)
SBC (Safe Brake Control)¹⁾
SLS (Safely-Limited Speed)²⁾
SSM (Safe Speed Monitor)²⁾
SDI (Safe Direction)²⁾

¹⁾ For the SBC function a Safe Brake Relay is required
²⁾ With Safety license

How many inputs and outputs are required?

Digital inputs (DI)	6	4	6	6	11
Failsafe DI	–	–	1 (opt. for 2 DI)	3 (opt. for 2 DI)	3 (opt. for 2 DI)
Digital outputs (DO)	3	1	3	3	3
Failsafe DO	–	–	–	–	1 (opt. for 2 DO)
Fast DI/DO	–	–	–	–	4
Analog inputs	4	1	2	2	2
Analog outputs	2	1	2	2	2
	CU230P-2	CU240B-2	CU240E-2	CU240E-2 F	CU250S-2

What type of communication/bus system is required?

USS, Modbus RTU	CU230P-2 HVAC 6SL3243-0BB30-1HA3	CU240B-2 6SL3244-0BB00-1BA1	CU240E-2 6SL3244-0BB12-1BA1	CU240E-2-F 6SL3244-0BB13-1BA1	CU250S-2 6SL3246-0BA22-1BA0
BACnet MS/TP, P1 Protocol	CU230P-2 HVAC 6SL3243-0BB30-1HA3	–	–	–	–
PROFIBUS DP	CU230P-2 DP 6SL3243-0BB30-1PA3	CU240B-2 DP 6SL3244-0BB00-1PA1	CU240E-2 DP 6SL3244-0BB12-1PA1	CU240E-2 DP-F 6SL3244-0BB13-1PA1	CU250S-2 DP 6SL3246-0BA22-1PA0
PROFINET, Ethernet/IP	CU230P-2 PN 6SL3243-0BB30-1FA0	–	CU240E-2 PN 6SL3244-0BB12-1FA0	CU240E-2 PN-F 6SL3244-0BB13-1FA0	CU250S-2 PN 6SL3246-0BA22-1FA0
CANopen	CU230P-2 CAN 6SL3243-0BB30-1CA3	–	–	–	CU250S-2 CAN 6SL3246-0BA22-1CA0

Combination with Power Modules permitted

PM230 (IP20)	YES	YES	YES (not Safety)	YES (not Safety)	NO
PM240	YES	YES	YES	YES	YES
PM240-2	YES	YES	YES	YES	YES
PM250	YES	YES	YES	YES	YES

Is an optional shield connection kit required for the Control Unit? YES/NO

Shield connection kit 1 6SL3264-1EA00-0FA0	HVAC PROFIBUS CANopen	–	–	–	–
Shield connection kit 2 6SL3264-1EA00-0HA0	–	RS 485/USS/Modbus PROFIBUS	RS 485/USS/Modbus PROFIBUS	RS 485/USS/Modbus PROFIBUS	–
Shield connection kit 3 6SL3264-1EA00-0HBO	PROFINET	PROFINET	PROFINET	PROFINET	–
Shield connection kit 4 6SL3264-1EA00-0LA0	–	–	–	–	All versions

Step 4: Optional components and licenses

See Catalog D 31 chapter "SINAMICS G120 standard inverters"

Optional additional components

Description	Article number
Intelligent Operator Panel (IOP)	6SL3255-0AA00-4JA1
IOP Handheld (degree of protection IP54)	6SL3255-0AA00-4HA0
Basic Operator Panel BOP-2	6SL3255-0AA00-4CA1
Door mounting kit for BOP-2/IOP	6SL3256-0AP00-0JA0
SINAMICS Memory Card (SD card)	6SL3054-4AG00-2AA0
SINAMICS SD card including firmware V4.7	6SL3054-7EH00-2BA0
Additional licenses for CU250S-2 – SD card + license Extended Functions Safety (SLS, SSM, SDI) – SD card + license Extended Functions basic positioning (EPos) – SD card + license Extended Safety + basic positioning – License Extended Functions Safety for CU250S-2 – License Extended Functions basic positioning (EPos)	6SL3054-4AG00-2AA0-Z F01 6SL3054-4AG00-2AA0-Z E01 6SL3054-4AG00-2AA0-Z F01 E01 6SL3074-0AA10-0AA0 6SL3074-7AA04-0AA0
Additional licenses for CU250S-2 including firmware V4.7 – SD card + license Extended Functions Safety (SLS, SSM, SDI) + firmware V4.7 – SD card + license Extended Functions basic positioning (EPos) + firmware V4.7 – SD card + license Extended Functions Safety + basic positioning + firmware V4.7	6SL3054-7EH00-2BA0-Z F01 6SL3054-7EH00-2BA0-Z F01 6SL3054-7EH00-2BA0-Z E01+F01
Optional memory card with firmware V4.7 for Control Units CU230P-2, CU240B-2, CU240E-2 and CU250S-2 SINAMICS SD card + firmware V4.7	6SL3054-7EH00-2BA0
PC connection kit 2 (for CU230P-2, CU240B-2, CU240E-2, CU250S-2)	6SL3255-0AA00-2CA0
Brake Relay (for direct activation of a motor brake by the CU)	6SL3252-0BB00-0AA0
Safe Brake Relay (Safety version)	6SL3252-0BB01-0AA0
Connector plug (spare part) for PM240-2	6SL3200-0ST05-0AA0
Fan unit (spare part) for PM240-2	6SL3200-0SF12-0AA0
Push-through mounting frame For PM230 Power Module, degree of protection IP20 – Size FSA – Size FSB – Size FSC	6SL3260-6AA00-0DA0 6SL3260-6AB00-0DA0 6SL3260-6AC00-0DA0

Software for project design and commissioning

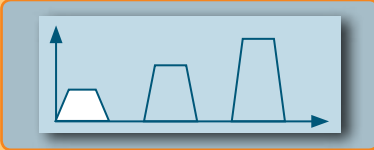
Description	Article number
STARTER commissioning tool on DVD-ROM	6SL3072-0AA00-0AG0
SINAMICS Startdrive commissioning tool on DVD-ROM	6SL3072-4DA02-0XG0
SIZER for Siemens Drives engineering tool	6SL3070-0AA00-0AG0
CAD Creator	6SL3075-0AA0-0AG0

Detailed information about the products and options can be found in the current Catalog D 31, chapter "SINAMICS G120 standard inverters" or in the Siemens Industry Mall.

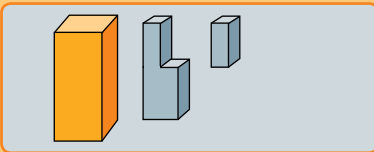
SINAMICS G120 – Selection

SINAMICS G120 is a modular inverter with a variety of functional components.
The main ones are:

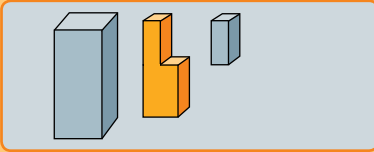
- Control Unit (CU)
- Power Module (PM)



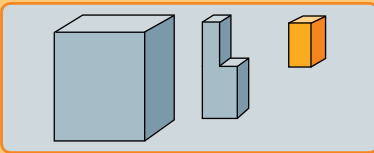
Step 1:
Selection of the application



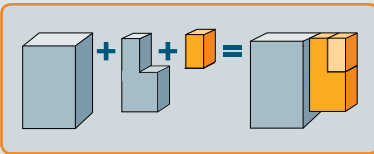
Step 2:
Selection of the Power Module and the associated options



Step 3:
Selection of the Control Unit



Step 4:
Selection of the optional components



Configuration of the optimum SINAMICS G120 frequency inverter has been completed!

Detailed information about the products and options can be found in the current Catalog D 31, chapter "SINAMICS G120 standard inverters" or in the Siemens Industry Mall.

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AO 1014 42. SB/WÜ 8 En
Printed in Germany
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