

Variable speed drives






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Variable speed drives

Overview and selection tools

Product range overview

Order instruction

G120P Bundle		order separately
Control Unit CU230P-2 BT incl. shield connection kit 	Power Module PM230 3 AC 380 ... 480 V 0.75 ... 75 kW (IP20) 0.75 ... 90 kW (IP55) 	Operator panel IOP-2 Intelligent Operator Panel or BOP-2 Basic Operator Panel or Blanking cover 
Optional accessory Memory cards CU230P-2 DP (PROFIBUS DP) CU230P-2 CAN (CANopen) CU230P-2 PN (PROFINET IO) Air guide sheets Installation kits Door mounting kits		Spare parts Small mounting parts Fan units

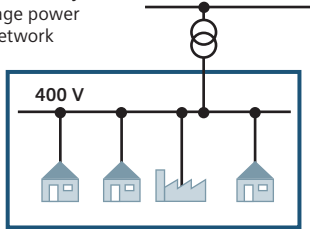
Power range G120P

		Dimension / WxHxD			
		IP55		IP20	
kW	Frame size	Filter A	Filter B	Filter A	Filter B
0.75	A	154x460x249	154x460x249	73x196x223	73x202x288
1.1	A	154x460x249	154x460x249	73x196x223	73x202x288
1.5	A	154x460x249	154x460x249	73x196x223	73x202x288
2.2	A	154x460x249	154x460x249	73x196x223	73x202x288
3	A	154x460x249	154x460x249	73x196x223	73x202x288
4	B	180x540x249	180x540x249	100x292x223	100x297x308
5.5	B	180x540x249	180x540x249	100x292x223	100x297x308
7.5	B	180x540x249	180x540x249	100x292x223	100x297x308
11	C	230x620x249	230x620x249	140x355x223	140x359x318
15	C	230x620x249	230x620x249	140x355x223	140x359x318
18.5	C/D	230x620x249	320x640x329	140x355x223	140x359x318
22	D	320x640x329	320x640x329	275x512x253	375x419x253
30	D	320x640x329	320x640x329	275x512x253	375x419x253
37	E	320x751x329	320x751x329	275x635x253	385x499x253
45	E	320x751x329	320x751x329	275x635x253	385x499x253
55	F	410x915x416	410x915x416	350x934x365	500x634x365
75	F	410x915x416	410x915x416	350x934x365	500x634x365
90	F	410x915x416	410x915x416	not available	not available

IP20: The depth increases when using a BOP-2/Blanking Cover by +12mm and with an IOP +22mm
 Remark IP55: The depth increases by 7mm if BOP-2 or blind cover is used. The Depth increases by 17mm if IOP is used.
 Remark IP20: The height increases if screen plate is used:
 FSA: + 80 mm; FSB: + 78 mm; FSC: + 77 mm; FSD, FSE, FSF: + 123 mm.

Filter

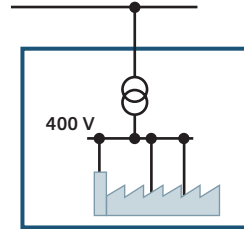
1st Enviroment
 Connected directly to
 low voltage power
 supply network



G120P filter B
 for EMV sensitive applications
 filter according EN 55011 Class B / EN 61800-3 C1

G120P filter A
 for standard applications
 filter according EN 55011 Class A1 / EN 61800-3 C2
 installation and commissioning by a professional

2nd Enviroment
 Any building fed from a
 dedicated transformer



Variable speed drive with filter
 according EN 55011 Class A2
 EN 61800-3 C3

Variable speed drive unfiltered
 EN 61800-3 C4



Variable Speed Drive for pumps and fans

Variable speed drive for energy-optimized speed control of pump, compressor and fan motors in building control applications, including: Powermodule PM230, ControlUnit CU230P-2 BT with screening plate without panel. Available degree of protection: IP20 and IP55.

The G120P Bundle does not contain an operator panel or blanking cover. To achieve the IP55 or IP54 protection rating with the IP55 devices, please order an operator panel or blanking cover separately.

Data sheet	N5111
Frequency	47...63 Hz
Communication	Modbus/RTU RS485/US5 BACnetMS/TP PROFIBUS (optional) PROFINET (optional) CANopen (optional) P1 FLN
Overload capacity	FSA-FSC: 110% for 57 sec. and 150% for 3 sec. every 300 sec. FSD-FSF: 110% for 60 sec. every 300 sec.
Protection functions	- Overvoltage and undervoltage - VSD overtemperature - Motor temperature with PTC via special input terminals - I ² t motor, thermal - Ground fault, short circuit - Stalling current and locked rotor
PWM frequency	4 kHz...16 kHz (2 kHz steps)
Output frequency	0...550 Hz
Analog inputs	Switchable, programmable scaling
Analog inputs, number	4
Analog input, signal	DC -10...10 V DC 0...10 V DC 0...20 mA DC 2...10 V DC 4...20 mA Pt1000 LG-Ni1000
Analog outputs	Programmable scaling Switchable
Analog outputs, number	2
Analog output, signal	DC 0...10 V DC 2...10 V DC 0...20 mA DC 4...20 mA
Digital inputs, number	6
Digital inputs	Potential-free input signal Programmable
Relay outputs	Potential-free switchover contacts Programmable
Relay outputs, number	3
Relay output, switching voltage	AC 250 V DC 30 V
Relay output, switching current	AC 2 A DC 5 A
Operating temperature	0...60 °C
Product conformity	CE C-TIC
Standard	EN 61800-3

Variable speed drives

Variable speed drives

G120P..

G120P..AM..B..



Variable Speed Drive for pumps and fans, IP55, Filter B

Variable speed drive for energy-optimized speed control of pump, compressor and fan motors in building control applications, including: Powermodule PM230, ControlUnit CU230P-2 BT with screening plate without panel.

The G120P Bundle does not contain an operator panel or blanking cover. To achieve the IP55 or IP54 protection rating with the IP55 devices, please order an operator panel or blanking cover separately.

Range overview G120P..AM..B..

Power output [kW]	Operating voltage [V]	Output current [A]	Filter type	Dimensions (W x H x D) [mm]	Weight [kg]	Stock No.	Product No.
0.75	400	2.2	B	154 x 460 x 249	5.01	6SL3200-6AM12-2BH0	G120P-0.75/35B
1.1	400	3.1	B	154 x 460 x 249	5.01	6SL3200-6AM13-1BH0	G120P-1.1/35B
1.5	400	4.1	B	154 x 460 x 249	5.01	6SL3200-6AM14-1BH0	G120P-1.5/35B
2.2	400	5.9	B	154 x 460 x 249	5.01	6SL3200-6AM15-8BH0	G120P-2.2/35B
3	400	7.7	B	154 x 460 x 249	5.01	6SL3200-6AM17-7BH0	G120P-3/35B
4	400	10.2	B	180 x 540 x 249	7.01	6SL3200-6AM21-0BH0	G120P-4/35B
5.5	400	13.2	B	180 x 540 x 249	7.01	6SL3200-6AM21-3BH0	G120P-5.5/35B
7.5	400	18	B	180 x 540 x 249	7.01	6SL3200-6AM21-8BH0	G120P-7.5/35B
11	400	26	B	230 x 620 x 249	10.21	6SL3200-6AM22-6BH0	G120P-11/35B
15	400	32	B	230 x 620 x 249	10.21	6SL3200-6AM23-2BH0	G120P-15/35B
18.5	400	38	B	320 x 640 x 329	31.71	6SL3200-6AM23-8BH0	G120P-18.5/35B
22	400	45	B	320 x 640 x 329	31.71	6SL3200-6AM24-5BH0	G120P-22/35B
30	400	60	B	320 x 640 x 329	31.71	6SL3200-6AM26-0BH0	G120P-30/35B
37	400	75	B	320 x 751 x 329	37.71	6SL3200-6AM27-5BH0	G120P-37/35B
45	400	90	B	320 x 751 x 329	37.71	6SL3200-6AM28-8BH0	G120P-45/35B
55	400	110	B	410 x 915 x 416	70.71	6SL3200-6AM31-1BH0	G120P-55/35B
75	400	145	B	410 x 915 x 416	70.71	6SL3200-6AM31-4BH0	G120P-75/35B
90	400	178	B	410 x 915 x 416	70.71	6SL3200-6AM31-7BH0	G120P-90/35B

IP55: The depth increases when using a BOP-2/Blanking Cover by +7mm and with an IOP +17mm

Variable Speed Drive for pumps and fans, IP55, Filter A

G120P..AM..A..

Variable speed drive for energy-optimized speed control of pump, compressor and fan motors in building control applications, including: Powermodule PM230, ControlUnit CU230P-2 BT with screening plate without panel.



The G120P Bundle does not contain an operator panel or blanking cover. To achieve the IP55 or IP54 protection rating with the IP55 devices, please order an operator panel or blanking cover separately.

Range overview G120P..AM..A..

Power output [kW]	Operating voltage [V]	Output current [A]	Filter type	Dimensions (W x H x D) [mm]	Weight [kg]	Stock No.	Product No.
0.75	400	2.2	A	154 x 460 x 249	5.01	6SL3200-6AM12-2AH0	G120P-0.75/35A
1.1	400	3.1	A	154 x 460 x 249	5.01	6SL3200-6AM13-1AH0	G120P-1.1/35A
1.5	400	4.1	A	154 x 460 x 249	5.01	6SL3200-6AM14-1AH0	G120P-1.5/35A
2.2	400	5.9	A	154 x 460 x 249	5.01	6SL3200-6AM15-8AH0	G120P-2.2/35A
3	400	7.7	A	154 x 460 x 249	5.01	6SL3200-6AM17-7AH0	G120P-3/35A
4	400	10.2	A	180 x 540 x 249	7.01	6SL3200-6AM21-0AH0	G120P-4/35A
5.5	400	13.2	A	180 x 540 x 249	7.01	6SL3200-6AM21-3AH0	G120P-5.5/35A
7.5	400	18	A	180 x 540 x 249	7.01	6SL3200-6AM21-8AH0	G120P-7.5/35A
11	400	26	A	230 x 620 x 249	10.21	6SL3200-6AM22-6AH0	G120P-11/35A
15	400	32	A	230 x 620 x 249	10.21	6SL3200-6AM23-2AH0	G120P-15/35A
18.5	400	38	A	230 x 620 x 249	10.21	6SL3200-6AM23-8AH0	G120P-18.5/35A
22	400	45	A	320 x 640 x 329	31.71	6SL3200-6AM24-5AH0	G120P-22/35A
30	400	60	A	320 x 640 x 329	31.71	6SL3200-6AM26-0AH0	G120P-30/35A
37	400	75	A	320 x 751 x 329	37.71	6SL3200-6AM27-5AH0	G120P-37/35A
45	400	90	A	320 x 751 x 329	37.71	6SL3200-6AM28-8AH0	G120P-45/35A
55	400	110	A	410 x 915 x 416	70.71	6SL3200-6AM31-1AH0	G120P-55/35A
75	400	145	A	410 x 915 x 416	70.71	6SL3200-6AM31-4AH0	G120P-75/35A
90	400	178	A	410 x 915 x 416	70.71	6SL3200-6AM31-7AH0	G120P-90/35A

IP55: The depth increases when using a BOP-2/Blanking Cover by +7mm and with an IOP +17mm

Variable speed drives

Variable speed drives

G120P..

G120P..AE..B..



Variable Speed Drive for pumps and fans, IP20, Filter B

Variable speed drive for energy-optimized speed control of pump, compressor and fan motors in building control applications, including: Powermodule PM230, ControlUnit CU230P-2 BT with screening plate without panel.

Range overview G120P..AE..B..

Power output [kW]	Operating voltage [V]	Output current [A]	Filter type	Dimensions (W x H x D) [mm]	Weight [kg]	Stock No.	Product No.
0.75	400	2.2	B	73 x 202 x 288	4.06	6SL3200-6AE12-2BH0	G120P-0.75/32B
1.1	400	3.1	B	73 x 202 x 288	4.06	6SL3200-6AE13-1BH0	G120P-1.1/32B
1.5	400	4.1	B	73 x 202 x 288	4.06	6SL3200-6AE14-1BH0	G120P-1.5/32B
2.2	400	5.9	B	73 x 202 x 288	4.06	6SL3200-6AE15-8BH0	G120P-2.2/32B
3	400	7.7	B	73 x 202 x 288	4.06	6SL3200-6AE17-7BH0	G120P-3/32B
4	400	10.2	B	100 x 297 x 308	7.71	6SL3200-6AE21-0BH0	G120P-4/32B
5.5	400	13.2	B	100 x 297 x 308	7.71	6SL3200-6AE21-3BH0	G120P-5.5/32B
7.5	400	18	B	100 x 297 x 308	7.71	6SL3200-6AE21-8BH0	G120P-7.5/32B
11	400	26	B	140 x 359 x 318	13.11	6SL3200-6AE22-6BH0	G120P-11/32B
15	400	32	B	140 x 359 x 318	13.11	6SL3200-6AE23-2BH0	G120P-15/32B
18.5	400	38	B	140 x 359 x 318	13.11	6SL3200-6AE23-8BH0	G120P-18.5/32B
22	400	45	B	375 x 419 x 253	21.5	6SL3200-6AE24-5BH0	G120P-22/32B
30	400	60	B	375 x 419 x 253	21.5	6SL3200-6AE26-0BH0	G120P-30/32B
37	400	75	B	385 x 499 x 253	34.3	6SL3200-6AE27-5BH0	G120P-37/32B
45	400	90	B	385 x 499 x 253	34.3	6SL3200-6AE28-8BH0	G120P-45/32B
55	400	110	B	500 x 634 x 365	70.6	6SL3200-6AE31-1BH0	G120P-55/32B
75	400	145	B	500 x 634 x 365	70.6	6SL3200-6AE31-4BH0	G120P-75/32B

IP20: The depth increases when using a BOP-2/Blanking Cover by +12mm and with an IOP +22mm

Variable Speed Drive for pumps and fans, IP20, Filter A

G120P..AE..A..

Variable speed drive for energy-optimized speed control of pump, compressor and fan motors in building control applications, including: Powermodule PM230, ControlUnit CU230P-2 BT with screening plate without panel.



Range overview G120P..AE..A..

Power output [kW]	Operating voltage [V]	Output current [A]	Filter type	Dimensions (W x H x D) [mm]	Weight [kg]	Stock No.	Product No.
0.75	400	2.2	A	73 x 196 x 223	2.31	6SL3200-6AE12-2AH0	G120P-0.75/32A
1.1	400	3.1	A	73 x 196 x 223	2.31	6SL3200-6AE13-1AH0	G120P-1.1/32A
1.5	400	4.1	A	73 x 196 x 223	2.31	6SL3200-6AE14-1AH0	G120P-1.5/32A
2.2	400	5.9	A	73 x 196 x 223	2.31	6SL3200-6AE15-8AH0	G120P-2.2/32A
3	400	7.7	A	73 x 196 x 223	2.31	6SL3200-6AE17-7AH0	G120P-3/32A
4	400	10.2	A	100 x 292 x 223	3.71	6SL3200-6AE21-0AH0	G120P-4/32A
5.5	400	13.2	A	100 x 292 x 223	3.71	6SL3200-6AE21-3AH0	G120P-5.5/32A
7.5	400	18	A	100 x 292 x 223	3.71	6SL3200-6AE21-8AH0	G120P-7.5/32A
11	400	26	A	140 x 355 x 223	5.81	6SL3200-6AE22-6AH0	G120P-11/32A
15	400	32	A	140 x 355 x 223	5.81	6SL3200-6AE23-2AH0	G120P-15/32A
18.5	400	38	A	140 x 355 x 223	5.81	6SL3200-6AE23-8AH0	G120P-18.5/32A
22	400	45	A	275 x 512 x 253	14	6SL3200-6AE24-5AH0	G120P-22/32A
30	400	60	A	275 x 512 x 253	14	6SL3200-6AE26-0AH0	G120P-30/32A
37	400	75	A	275 x 635 x 253	22	6SL3200-6AE27-5AH0	G120P-37/32A
45	400	90	A	275 x 635 x 253	22	6SL3200-6AE28-8AH0	G120P-45/32A
55	400	110	A	350 x 934 x 365	48	6SL3200-6AE31-1AH0	G120P-55/32A
75	400	145	A	350 x 934 x 365	48	6SL3200-6AE31-4AH0	G120P-75/32A

IP20: The depth increases when using a BOP-2/Blanking Cover by +12mm and with an IOP +22mm

Variable speed drives

Variable speed drives

Accessories and spare parts for G120P..

Available operator panels for G120P..

Product Title	Data sheet	Stock No.	Product No.
G120P blanking cover, IP55		6SL3256-6BA00-0AA0	G120P-BCOVER
G120P basic operator panel BOP-2, IP55	N5116	6SL3255-6AA00-4CA0	G120P-BOP-2
G120P intelligent operator panel IOP-2, IP54	N5116	6SL3255-6AA00-4JA1	G120P-IOP-2

Accessories and spare parts for IP55

Product Title	Data sheet	Stock No.	Product No.
G120P PM Fan IP55, external, FSA		6SL3200-0SF21-0AA1	G120P-FExtFSA-IP55
G120P PM Fan IP55, external, FSB		6SL3200-0SF22-0AA1	G120P-FExtFSB-IP55
G120P PM Fan IP55, external, FSC		6SL3200-0SF23-0AA1	G120P-FExtFSC-IP55
G120P installation kit PM230, IP55, FSA	N5111	6SL3266-7LA00-0MA0	G120P-INS-KIT-FSA
G120P installation kit PM230, IP55, FSB	N5111	6SL3266-7LB00-0MA0	G120P-INS-KIT-FSB
G120P installation kit PM230, IP55, FSC	N5111	6SL3266-7LC00-0MA0	G120P-INS-KIT-FSC
G120P installation kit PM230, IP55, FSD	N5111	6SL3266-7LD00-0MA0	G120P-INS-KIT-FSD
G120P installation kit PM230, IP55, FSE	N5111	6SL3266-7LE00-0MA0	G120P-INS-KIT-FSE
G120P installation kit PM230, IP55, FSF	N5111	6SL3266-7LF00-0MA0	G120P-INS-KIT-FSF
G120P air guide sheet PM230, IP55, FSA	N5111	6SL3266-7SA00-0MA0	G120P-AIRSHEET-FSA
G120P air guide sheet PM230, IP55, FSB	N5111	6SL3266-7SB00-0MA0	G120P-AIRSHEET-FSB
G120P air guide sheet PM230, IP55, FSC	N5111	6SL3266-7SC00-0MA0	G120P-AIRSHEET-FSC
G120P PM Fan IP55, external, FSD-FSE		6SL3200-0SF24-0AA0	G120P-FExtFSE-IP55
G120P PM Fan IP55, external, FSF		6SL3200-0SF26-0AA0	G120P-FExtFSF-IP55
G120P PM Fan IP55, internal, FSA-FSC		6SL3200-0SF31-0AA0	G120P-FIntFSAC-IP55
G120P PM Fan IP55, internal, FSD-FSF		6SL3200-0SF32-0AA0	G120P-FIntFSDF-IP55
Operator Panel Extension cable for G120P IP55		6SL3256-1BA00-4HB0	G120P-IP55-PAN-EXT
G120P mounting parts set, PM230, IP55, FSA		6SL3200-0SK02-0AA0	G120P-MSetFSA-IP55
G120P mounting parts set, PM230, IP55, FSB		6SL3200-0SK03-0AA0	G120P-MSetFSB-IP55
G120P mounting parts set, PM230, IP55, FSC		6SL3200-0SK04-0AA0	G120P-MSetFSC-IP55
G120P mounting parts set, PM230, IP55, FSD		6SL3200-0SK05-0AA0	G120P-MSetFSD-IP55
G120P mounting parts set, PM230, IP55, FSE		6SL3200-0SK06-0AA0	G120P-MSetFSE-IP55
G120P mounting parts set, PM230, IP55, FSF		6SL3200-0SK07-0AA0	G120P-MSetFSF-IP55

Accessories and spare parts for IP20

Product Title	Stock No.	Product No.
G120P Door mounting kit for IOP or BOP-2	6SL3256-6AP00-0JAO	G120P-DOOR-KIT
G120P Screening-Kit, PM230 IP20 FSA	6SL3266-1EA00-0KAO	G120P-Screen-FSA
G120P Screening-Kit, PM230 IP20 FSB	6SL3266-1EB00-0KAO	G120P-Screen-FSB
G120P Screening-Kit, PM230 IP20 FSC	6SL3266-1EC00-0KAO	G120P-Screen-FSC
G120P Screening-Kit, PM230 IP20 FSD-FSE	6SL3262-1AD00-0DAO	G120P-Screen-FSDE
G120P Screening-Kit, PM230 IP20 FSF	6SL3262-1AF00-0DAO	G120P-Screen-FSF
G120P PM Fan IP20, external, FSD-FSE	6SL3200-0SF05-0AAO	G120P-FExtFSDE-IP20
G120P PM Fan IP20, external, FSF	6SL3200-0SF08-0AAO	G120P-FExtFSF-IP20
G120P PM Fan IP20, external, FSA	6SL3200-0SF21-0AAO	G120P-FExtFSA-IP20
G120P PM Fan IP20, external, FSB	6SL3200-0SF22-0AAO	G120P-FExtFSB-IP20
G120P PM Fan IP20, external, FSC	6SL3200-0SF23-0AAO	G120P-FExtFSC-IP20

Accessories and spare parts for IP55 and IP20

Product Title	Stock No.	Product No.
G120P Control Unit, USS, Modb, BacNet	S55529-E100	CU230P-2-BT
G120P Control Unit, CanOpen	6SL3243-0BB30-1CA3	CU230P-2 CAN
G120P Control Unit, Profibus	6SL3243-0BB30-1PA3	CU230P-2 DP
Sinamics Micro Memory Card (MMC)	6SL3254-0AM00-0AAO	G120P-MMC-Card
G120P PC-Inverter Connection Kit-2	6SL3255-0AA00-2CA0	G120P-PC-Kit
STARTER Commissioning Tool for Sinamics and Micromaster Drives	6SL3072-0AA00-0AGO	G120P-Starter
G120P Control Unit, Profinet	6SL3243-0BB30-1FA0	CU230P-2 PN
G120P CU230P-2 Screening Kit	6SL3264-1EA00-0FA0	G120P-CUScreen