

SIPLUS SINAMICS G120 PM 240-2 FSA-1.5kW -
 20...+50 °C with conformal coating based on 6SL3210-
 1PE14-3UL1 . unfiltered with integrated braking chopper
 380-480 V 3 AC +10/-10% 47-63 Hz Power high
 overload: 1.1 kW at 200% 3s, 150% 57s, 100% 240S
 Power low overload: 1, 5kW 196x 73x 165 (HxWxD),
 FSA Degree of protection IP20 without Control Unit and
 operator panel Released as of firmware version V4.6

Product brand name		SIPLUS
Input current		
• with low overload / rated value	A	5.5
• with high overload / rated value	A	4.7
Output current		
• rated value / maximum	A	6.2
• without overload / rated value	A	4.1
• with low overload / rated value	A	4.1
• with high overload / rated value	A	3.1
Supplied active power / at rated value of output voltage		
• with low overload	kW	1.5
• with high overload	kW	1.1
Efficiency		0.96
Cooling air flow	m ³ /s	0.005
1 m measuring surface sound pressure level / maximum	dB	50
Type of electrical connection		
• for PE conductor		Plug-in screw terminals
• for mains supply line		Plug-in screw terminals
• of the motor		Plug-in screw terminals
Connectable conductor cross-section / for mains supply line	mm ²	1 ... 2.5
Connectable conductor cross-section / for motor supply line	mm ²	1 ... 2.5
Wire length / for motor / shielded / maximum	m	50
Power loss [W] / maximum	kW	0.07
Protection class IP		IP20
Width	mm	73
Height	mm	196
Depth	mm	165
Design of the converter		FSA

Net weight	kg	1.4
Ambient temperature / during operation / maximum	°C	55
Relative humidity / without condensation / during operation / maximum / Note		RH incl. condensation/frost (no commissioning under condensation conditions)
Relative humidity / without condensation / during operation / maximum	%	100
Touch protection / acc. to EN 61800-5-1		Assuming use as prescribed
Operating resource protection class / acc. to EN 61800-5-1		Class I (with protective bonding circuit) and Class III (PELV)
Ambient temperature		
• during storage	°C	-25 ... +55
• during transport	°C	-40 ... +70
Ambient temperature [°F]		
• during storage	°F	-13 ... +131
• during storage / maximum / Note		Class 1K3 acc. to EN 60721-3-1
• during transport	°F	-40 ... +158
• during transport / maximum / Note		Class 2K3 according to EN 60721-3-2
Degree of pollution		2 according to EN 61800-5-1
Resistance to biologically active substances / conformity acc. to EN 60721-3-3		Yes
Resistance to biologically active substances		Class 3B2 acc. to EN 60721-3-3, mold and fungal spores (except fauna)
• conformity acc. to EN 60721-3-3 / Note		Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
conformity acc. to EN 60721-3-3		Yes
Resistance to chemically active substances		Class 3C4 acc. to EN 60721-3-3, including salt spray acc. to EN 60068-2-52 (severity level 3)
• conformity acc. to EN 60721-3-3 / Note		Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
Resistance to mechanically active substances / conformity acc. to EN 60721-3-3		No
Certificate of suitability		CE / TÜV
Certificate of suitability / for CE marking		Low Voltage Directive 2014/30/EU and 2014/35/EU
Standard / for EMC / acc. to EN 61800-3		The EMC product standard EN 61800-3 does not apply directly to a frequency inverter but to a PDS (Power Drive System), which comprises the complete circuitry, motor and cables in addition to the inverter
Product component / Line filter		No
Type of voltage / of the input voltage		AC
Electrical output frequency		
• for U/f control	Hz	0 ... 650
• for vector control	Hz	0 ... 200
Pulse frequency / rated value	kHz	4
Output voltage in percent / related to the input voltage	%	0 ... 95

Type of duty cycle duration		
<ul style="list-style-type: none"> with low overload 		1.1x rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s; 1.5x rated output current (i.e. 150 % overload) for 3 s with a cycle time of 300 s
<ul style="list-style-type: none"> with high overload 		1.5x output current rating (i.e. 150 % overload) for 57 s with a cycle time of 300 s; 2x output current rating (i.e. 200 % overload) for 3 s with a cycle time of 300 s
Type of cooling		Internal air cooling
Installation altitude / at height above sea level / without power reduction / maximum	m	1 000
Short-time withstand current (SCCR) / of the entire control cabinet / acc. to UL 508A	kA	65
Protection function		
<ul style="list-style-type: none"> undervoltage protection 		Yes
<ul style="list-style-type: none"> Overvoltage protection 		Yes
<ul style="list-style-type: none"> Overload protection 		Yes
<ul style="list-style-type: none"> Ground fault protection 		Yes
<ul style="list-style-type: none"> Short-circuit protection 		Yes
<ul style="list-style-type: none"> Stall protection 		Yes
<ul style="list-style-type: none"> with blocked rotor 		Yes
<ul style="list-style-type: none"> for motor / Temperature monitoring 		Yes
<ul style="list-style-type: none"> for converter / Temperature monitoring 		Yes
Shock acceleration / during operation / Note		(15x g)/11 ms
Vibration frequency / with constant deflection / during operation / acc. to EN 60068-2-6 / maximum / Note		Constant deflection 0.075 mm
Vibration frequency / with constant deflection / during operation / acc. to EN 60068-2-6	Hz	10 ... 58
Vibration frequency / with constant acceleration / during operation / acc. to EN 60068-2-6 / maximum / Note		Constant acceleration = 9.81 m/s ² (1 g)
Vibration frequency / with constant acceleration / during operation / acc. to EN 60068-2-6	Hz	58 ... 200

Certificates/ approvals:

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=6AG1210-1PE14-2UL1>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=6AG1210-1PE14-2UL1>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/6AG1210-1PE14-2UL1>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=6AG1210-1PE14-2UL1&lang=en

