



SIPLUS G120 PM 240-2 FSA-3kW -20...+50 °C with conformal coating based on 6SL3210-1PE18-0UL1 . unfiltered with integrated braking chopper 380-480 V 3 AC +10/-10% 47-63 Hz Power high overload: 2.2kW at 200% 3s, 150% 57s, 100% 240S Power low overload: 3kW at 150% 3s, 110% 57s, 100% 240S 196x 73x 165 (HxWxD), FSA Degree of protection IP20 without Control Unit and operator panel Released as of firmware version V4.6

Figure similar

<b>Product brand name</b>		SIPLUS
<b>Input current</b>		
• with low overload / rated value	A	10.1
• with high overload / rated value	A	8.8
<b>Output current</b>		
• rated value / maximum	A	11.8
• without overload / rated value	A	7.7
• with low overload / rated value	A	7.7
• with high overload / rated value	A	5.9
<b>Supplied active power / at rated value of output voltage</b>		
• with low overload	kW	3
• with high overload	kW	2.2
<b>Efficiency</b>		0.96
<b>Cooling air flow</b>	m³/s	0.005
<b>1 m measuring surface sound pressure level / maximum</b>	dB	50
<b>Type of electrical connection</b>		

<ul style="list-style-type: none"> <li>• for PE conductor</li> <li>• for mains supply line</li> <li>• of the motor</li> </ul>		Plug-in screw terminals Plug-in screw terminals Plug-in screw terminals
Connectable conductor cross-section / for mains supply line	mm <sup>2</sup>	1.5 ... 2.5
Connectable conductor cross-section / for motor supply line	mm <sup>2</sup>	1.5 ... 2.5
<b>Wire length / for motor / shielded / maximum</b>	m	50
<b>Power loss [W] / maximum</b>	kW	0.12
<b>Protection class IP</b>		IP20
<b>Width</b>	mm	73
<b>Height</b>	mm	196
<b>Depth</b>	mm	165
<b>Design of the converter</b>		FSA
<b>Net weight</b>	kg	1.4
<b>Ambient temperature / during operation / maximum</b>	°C	55
<b>Relative humidity / without condensation / during operation / maximum / Note</b>		RH incl. condensation/frost (no commissioning under condensation conditions)
<b>Relative humidity / without condensation / during operation / maximum</b>	%	100
<b>Touch protection / acc. to EN 61800-5-1</b>		Assuming use as prescribed
<b>Operating resource protection class / acc. to EN 61800-5-1</b>		Class I (with protective bonding circuit) and Class III (PELV)
<b>Ambient temperature</b>		
<ul style="list-style-type: none"> <li>• during storage</li> <li>• during transport</li> </ul>	°C	-25 ... +55
	°C	-40 ... +70
<b>Ambient temperature [°F]</b>		
<ul style="list-style-type: none"> <li>• during storage</li> <li>• during storage / maximum / Note</li> <li>• during transport</li> <li>• during transport / maximum / Note</li> </ul>	°F	-13 ... +131
		Class 1K3 acc. to EN 60721-3-1
	°F	-40 ... +158
		Class 2K3 according to EN 60721-3-2
<b>Degree of pollution</b>		2 according to EN 61800-5-1
<b>Resistance to biologically active substances / conformity acc. to EN 60721-3-3</b>		Yes
<b>Resistance to biologically active substances</b>		Class 3B2 acc. to EN 60721-3-3, mold and fungal spores (except fauna)
<ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-3 / Note</li> </ul>		Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
<b>conformity acc. to EN 60721-3-3</b>		Yes
<b>Resistance to chemically active substances</b>		Class 3C4 acc. to EN 60721-3-3, including salt spray acc. to EN 60068-2-52 (severity level 3)
<ul style="list-style-type: none"> <li>• conformity acc. to EN 60721-3-3 / Note</li> </ul>		Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
<b>Resistance to mechanically active substances / conformity acc. to EN 60721-3-3</b>		No

<b>Certificate of suitability</b>		CE / TÜV
<b>Certificate of suitability / for CE marking</b>		Low Voltage Directive 2014/30/EU and 2014/35/EU
<b>Standard / for EMC / acc. to EN 61800-3</b>		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
<b>Product component / Line filter</b>		No
<b>Type of voltage / of the input voltage</b>		AC
<b>Electrical output frequency</b>		
• for U/f control	Hz	0 ... 650
• for vector control	Hz	0 ... 200
<b>Pulse frequency / rated value</b>	kHz	4
Output voltage in percent / related to the input voltage	%	0 ... 95
<b>Type of duty cycle duration</b>		
• 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
• 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
<b>Type of cooling</b>		Internal air cooling
<b>Installation altitude / at height above sea level / without power reduction / maximum</b>	m	1 000
<b>Short-time withstand current (SCCR) / of the entire control cabinet / acc. to UL 508A</b>	kA	65
<b>Protection function</b>		
• undervoltage protection		Yes
• Overvoltage protection		Yes
• Overload protection		Yes
• Ground fault protection		Yes
• Short-circuit protection		Yes
• Stall protection		Yes
• with blocked rotor		Yes
• for motor / Temperature monitoring		Yes
• for converter / Temperature monitoring		Yes
<b>Shock acceleration / during operation / Note</b>		(15x g)/11 ms
<b>Vibration frequency / with constant deflection / during operation / acc. to EN 60068-2-6 / maximum / Note</b>		Constant deflection 0.075 mm
<b>Vibration frequency / with constant deflection / during operation / acc. to EN 60068-2-6</b>	Hz	10 ... 58

Vibration frequency / with constant acceleration / during operation / acc. to EN 60068-2-6 / maximum / Note		Constant acceleration = 9.81 m/s <sup>2</sup> (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=6AG1210-1PE18-2UL1>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=6AG1210-1PE18-2UL1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/6AG1210-1PE18-2UL1>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=6AG1210-1PE18-2UL1&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=6AG1210-1PE18-2UL1&lang=en)