

SIPLUS G120 PM 240-2 FSB 7.5kW Power Module PM 240-2 unfilt.  
 -20...+50°C with conformal coating based on 6SL3210-1PE21-8UL0 .  
 with integrated braking chopper 380-480 V 3 AC +10/-10% 47-63 Hz  
 Power high overload: 5.5kW at 200% 3s,150% 57s,100% 240s  
 Power rating low overload: 7.5 kW at 150% 3s,110% 57s,100% 240s  
 291x 100x 165 (HxWxD), FSB Degree of protection IP20 without  
 Control Unit and operating unit Released as of firmware version V4.6



Figure similar

General information	
Product type designation	PM240-2
Product version	FSB 7.5 kW
Design of the converter	FSB
Protection function	
• Undervoltage protection	Yes
• Overvoltage protection	Yes
• Overload protection	Yes
• Ground-fault protection	Yes
• Short-circuit protection	Yes
• Stall protection	Yes
• With blocked rotor	Yes
• Temperature monitor for motor	Yes
• Temperature monitor for converter	Yes
• Parameter locking	Yes
Input voltage	

Type of input voltage	AC
<b>Mains filter</b>	
• present	No
<b>Input current</b>	
Input current with low overload	22.2 A
Input current with high overload	19.8 A
<b>Output voltage</b>	
Output voltage in relation to input voltage, min.	0 %
Output voltage in relation to input voltage, max.	95 %
Pulse frequency	4 kHz
<b>Output current</b>	
Output current, max.	27 A
Output current without overload	18 A
Output current with low overload	18 A
Output current with high overload	13.2 A
<b>Power loss</b>	
Power loss, max.	0.2 kW
<b>Power electronics</b>	
emitted active power with low overload	7.5 kW
emitted active power with high overload	5.5 kW
Efficiency	0.97
Type of duty cycle duration 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
Type of duty cycle duration 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
Cooling method	Internal air cooling
Cooling air flow	0.0092 m <sup>3</sup> /s
Short-time withstand current (SCCR) of the entire control cabinet in accordance with UL 508A	65 kA
<b>Isolation</b>	
Degree of pollution	2 according to EN 61800-5-1
<b>Degree and class of protection</b>	
IP degree of protection	IP20
Equipment protection class according to EN 61800-5-1	Class I (with protective bonding circuit) and Class III (PELV)
Touch protection according to EN 61800-5-1	Assuming use as prescribed
<b>Standards, approvals, certificates</b>	
Certificate of suitability	CE / TÜV
Verification of suitability for CE marking	Low-Voltage Directive 2014/30/EU and 2014/35/EU

Standard for EMC according 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
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Ambient conditions	
Ambient temperature during operation	
• min.	-20 °C; = Tmin
• max.	55 °C; = Tmax
Ambient temperature during storage/transportation	
• Storage, min.	-25 °C
• Storage, max.	55 °C
• Storage, min. [°F]	-13 °F
• Storage, max. [°F]	131 °F; Class 1K3 acc. to EN 60721-3-1
• Transportation, min.	-40 °C
• Transportation, max.	70 °C
• Transport, min. [°F]	-40 °F
• Transport, max. [°F]	158 °F; Class 2K3 according to EN 60721-3-2
Altitude during operation relating to sea level	
• Installation altitude above sea level without derating, max.	1 000 m
Relative humidity	
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Vibrations	
• Vibration frequency with constant acceleration during operation according to EN 60068-2-6, min.	58 Hz
• Vibration frequency with constant acceleration during operation according to EN 60068-2-6, max.	200 Hz; Constant acceleration = 9.81 m/s <sup>2</sup> (1 g)
• Vibration frequency with constant deflection during operation according to EN 60068-2-6, min.	10 Hz
• Vibration frequency with constant deflection during operation according to EN 60068-2-6, max.	58 Hz; Constant deflection 0.075 mm
• Oscillation frequency during transport in accordance with EN 60721-3-2	Class 2M3
Shock testing	
• Shock load during operation	(15x g)/11 ms
• Shock acceleration during operation according to EN 60068-2-27	147 m/s <sup>2</sup>
• Shock acceleration during transport according to EN 60721-3-2	Class 2M3
Resistance	
Use in stationary industrial systems	

— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-3	No
<b>Usage in industrial process technology</b>	
— Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)
— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
<b>Remark</b>	
— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	* The supplied plug covers must remain in place over the unused interfaces during operation!
<b>Conformal coating</b>	
• Coatings for printed circuit board assemblies acc. to EN 61086	Yes
• Military testing according to MIL-I-46058C, Amendment 7	Yes; Discoloration of coating possible during service life
• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, Class A
<b>Cables</b>	
Cable length for motor, shielded, max.	50 m
<b>Connection method</b>	
Design of electrical connection of motor	Plug-in screw terminals
• connectable cable cross-section for motor supply line, min.	1.5 mm <sup>2</sup>
• connectable cable cross-section for motor supply line, max.	6 mm <sup>2</sup>
Type of electrical connection for mains supply line	Plug-in screw terminals
• connectable cable cross-section for mains supply line, min.	1.5 mm <sup>2</sup>
• connectable cable cross-section for mains supply line, max.	6 mm <sup>2</sup>
Design of electrical connection for the PE conductor	Plug-in screw terminals
<b>Dimensions</b>	
Width	100 mm
Height	292 mm
Depth	165 mm
<b>Weights</b>	

Weight (without packaging)	3 kg
<b>Other</b>	
Sound pressure level (1 m), max.	62 dB
Brake design	DC braking, compound braking, resistance braking with integrated brake chopper (for size FSGX optional)
<b>last modified:</b>	05/09/2020