SIEMENS

Data sheet

6AG1210-1PE28-2UL0



SIPLUS G120 PM240-2 IP20-FSE-U-400V 45 kW based on 6SL3210-1PE28-8UL0 with conformal coating, -20...+50 °C, unfiltered with integrated braking chopper 380-480 V 3 AC +10/-20% 47-63 Hz power high overload: 37 kW at 200% 3 s,150% 57 s,100% 240 s power low overload: 45 kW at 150% 3 s,110% 57 s,100% 240 s 551x 275x 237 (HxWxD), design FSE degree of protection IP20 without CU and operating unit released as of CU FW version V4.7 HF8

General information		
Product type designation	PM240-2	
Product version	FSE 45 kW	
Design of the converter	FSE	
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	
Mains filter		
• present	No	
Input current		
Input current with low overload	86 A	
Input current with high overload	78 A	
output voltage / header		
Output voltage in relation to input voltage, min.	0 %	
Output voltage in relation to input voltage, max.	95 %	
Pulse frequency	4 kHz	
Output current		
Output current, max.	150 A	
Output current without overload	90 A	
Output current with low overload	90 A	
Output current with high overload	75 A	
Power loss		
Power loss, max.	1.194 kW	
Power loss of the CDM in standby mode	32 W	
Power loss of the CDM at the operating point (0/25)	406 W	
Power loss of the CDM at the operating point (0/50)	543 W	
Power loss of the CDM at the operating point (0/100)	955 W	
Power loss of the CDM at the operating point (50/25)	424 W	
Power loss of the CDM at the operating point (50/50)	599 W	
Power loss of the CDM at the operating point (50/100)	1 092 W	

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Power loss of the CDM at the operating point (90/50)	674 W
Power loss of the CDM at the operating point (90/100)	1 317 W
Relative power loss of the CDM at the operating point (0/25)	0.65 %
Relative power loss of the CDM at the operating point (0/50)	0.87 %
Relative power loss of the CDM at the operating point (0/100)	1.53 %
Relative power loss of the CDM at the operating point (50/25)	0.68 %
Relative power loss of the CDM at the operating point (50/50)	0.96 %
Relative power loss of the CDM at the operating point (50/100)	1.75 %
Relative power loss of the CDM at the operating point (90/50)	1.08 %
	2.11 %
Relative power loss of the CDM at the operating point (90/100)	17
Ratio of converter losses / reference converter losses at the operating point (90/100)	55.58
IE class of the CDM	IE2
Power electronics	
emitted active power with low overload	45 kW
emitted active power with high overload	37 kW
active power output with low overload [hp]	60 hp
active power output with high overload [hp]	50 hp
apparent power output	62.4 kVA
	0.98
Efficiency Type of duty evelo duration with law everland	
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	0.083 m³/s
Short-time withstand current (SCCR) of the entire control	65 kA
cabinet in accordance with UL 508A	
Isolation	
Degree of pollution	2 according to EN 61800-5-1
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Degree and class of protection	2 doctring to 2.11 01000 0 1
	IP20
Degree and class of protection IP degree of protection	IP20
Degree and class of protection IP degree of protection Equipment protection class according to EN 61800-5-1	IP20 Class I (with protective bonding circuit) and Class III (PELV)
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operation according to EN 60068-2-6, max.	
 Vibration frequency with constant deflection during operation according to EN 60068-2-6, min. 	13 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/s²
 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
Usage in industrial process technology	
 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)
Remark	
 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!
Conformal coating	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high reliability
 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
Cables	
Cable length for motor, shielded, max.	200 m
Cable length for braking resistor, max.	10 m
connection method	10 111
	Screw terminals
Design of electrical connection of motor connectable cable cross-section for motor supply line, min.	25 mm ²
connectable cable cross-section for motor supply line, max.	70 mm²
Connectable conductor cross-section for AWG cables, min.	4
Type of electrical connection for mains supply line	Screw terminals
connectable cable cross-section for mains supply line, min.	25 mm ²
 connectable cable cross-section for mains supply line, max. 	70 mm ²
 Connectable conductor cross-section for AWG cables, min. 	4
Type of electrical connection for supply cable to braking resistor	Screw terminals
Connectable cable cross-section for supply cable to braking resistor, min.	10 mm ²
 Connectable cable cross-section for supply cable to braking resistor, max. 	35 mm²
 Connectable conductor cross-section for AWG cables, min. 	8
 Connectable conductor cross-section for AWG cables, max. 	2
Design of electrical connection for the PE conductor Dimensions	Screw terminals
Width	275 mm
*******	=. V

Height	551 mm
Depth	237 mm
Weights	
Weight (without packaging)	26 kg
Other	
Sound pressure level (1 m), max.	70.6 dB
Brake design	DC braking, compound braking, resistance braking with integrated brake chopper (for size FSGX optional)

last modified:

1/16/2021