SIEMENS

Data sheet

6AG1210-1PE26-2AL0



SIPLUS G120 PM240-2 IP20-FSD-A-400V 30 kW based on 6SL3210-1PE26-0AL0 with conformal coating, -20...+50 °C, with integrated class A filter with integrated braking chopper 380-480 V 3 AC +10/-20% 47-63 Hz power high overload: 22 kW at 200% 3 s,150% 57 s,100% 240 s power low overload: 30 kW at 150% 3 s,110% 57 s,100% 240 s 472x 200x 237 (HxWxD), design FSD, 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	FSD 30 kW
Design of the converter	FSD
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	Yes
 Design of line filter 	Class A
Input current	
Input current with low overload	57 A
Input current with high overload	47 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.	90 A
Output current without overload	60 A
Output current with low overload	60 A
Output current with high overload	45 A
Power loss	
Power loss, max.	0.77 kW
Power loss of the CDM in standby mode	27 W
Power loss of the CDM at the operating point (0/25)	279 W
Power loss of the CDM at the operating point (0/50)	357 W
Power loss of the CDM at the operating point (0/100)	603 W
Power loss of the CDM at the operating point (50/25)	295 W
Power loss of the CDM at the operating point (50/50)	395 W

Power loss of the CDM at the operating point (50/100)	698 W
Power loss of the CDM at the operating point (90/50)	445 W
Power loss of the CDM at the operating point (90/100)	848 W
Relative power loss of the CDM at the operating point (0/25)	0.67 %
Relative power loss of the CDM at the operating point (0/50)	0.86 %
Relative power loss of the CDM at the operating point (0/100)	1.45 %
Relative power loss of the CDM at the operating point (50/25)	0.71 %
Relative power loss of the CDM at the operating point (50/50)	0.95 %
Relative power loss of the CDM at the operating point (50/100)	1.68 %
Relative power loss of the CDM at the operating point (90/50)	1.07 %
Relative power loss of the CDM at the operating point (90/100)	2.04 %
Ratio of converter losses / reference converter losses at the operating point (90/100)	58.11
IE class of the CDM	IE2
Power electronics	
	20 144
emitted active power with low overload	30 kW
emitted active power with high overload	22 kW
active power output with low overload [hp]	40 hp
active power output with high overload [hp]	30 hp
apparent power output	41.6 kVA
Efficiency	0.98
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	0.055 m³/s
Short-time withstand current (SCCR) of the entire control	65 kA
cabinet in accordance with UL 508A	00 KA
Isolation	
D	0
Degree of pollution	2 according to EN 61800-5-1
Degree and class of protection	2 according to EN 61800-5-1
Degree and class of protection	
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)
Degree and class of protection IP degree of protection Equipment protection class according to EN 61800-5-1 Touch protection according to EN 61800-5-1	IP20
Degree and class of protection IP degree of protection Equipment protection class according to EN 61800-5-1 Touch protection according to EN 61800-5-1 Standards, approvals, certificates	IP20 Class I (with protective bonding circuit) and Class III (PELV) Assuming use as prescribed
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 Vibration frequency with constant acceleration during operation according to EN 60068-2-6, max. 	200 Hz; Constant acceleration = 9.81 m/s² (1 g)
 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	147 m/s²
60068-2-27	
 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	TO THE
	Corous terminals
Design of electrical connection of motor	Screw terminals
connectable cable cross-section for motor supply line, min.	10 mm²
connectable cable cross-section for motor supply line, max.	35 mm ²
 Connectable conductor cross-section for AWG cables, min. 	8
 Connectable conductor cross-section for AWG cables, max. 	2
Type of electrical connection for mains supply line	Screw terminals
	ociew terrimais
 connectable cable cross-section for mains supply line, min. 	10 mm ²
min. • connectable cable cross-section for mains supply line,	10 mm²
 min. connectable cable cross-section for mains supply line, max. Connectable conductor cross-section for AWG cables, 	10 mm ² 35 mm ²
 min. connectable cable cross-section for mains supply line, max. Connectable conductor cross-section for AWG cables, min. Connectable conductor cross-section for AWG cables, max. 	10 mm ² 35 mm ² 8
 min. connectable cable cross-section for mains supply line, max. Connectable conductor cross-section for AWG cables, min. Connectable conductor cross-section for AWG cables, 	10 mm ² 35 mm ² 8 2
 min. connectable cable cross-section for mains supply line, max. Connectable conductor cross-section for AWG cables, min. Connectable conductor cross-section for AWG cables, max. Type of electrical connection for supply cable to braking resistor Connectable cable cross-section for supply cable to 	10 mm² 35 mm² 8 2 Screw terminals
 min. connectable cable cross-section for mains supply line, max. Connectable conductor cross-section for AWG cables, min. Connectable conductor cross-section for AWG cables, max. Type of electrical connection for supply cable to braking resistor Connectable cable cross-section for supply cable to braking resistor, min. Connectable cable cross-section for supply cable to 	10 mm² 35 mm² 8 2 Screw terminals 2.5 mm²
min. • connectable cable cross-section for mains supply line, max. • Connectable conductor cross-section for AWG cables, min. • Connectable conductor cross-section for AWG cables, max. Type of electrical connection for supply cable to braking resistor • Connectable cable cross-section for supply cable to braking resistor, min. • Connectable cable cross-section for supply cable to braking resistor, max. • Connectable conductor cross-section for AWG cables,	10 mm² 35 mm² 8 2 Screw terminals 2.5 mm² 16 mm²

max.	
Design of electrical connection for the PE conductor	Screw terminals
Dimensions	
Width	200 mm
Height	472 mm
Depth	237 mm
Weights	
Weight (without packaging)	18.5 kg
Other	
Sound pressure level (1 m), max.	71.6 dB
Brake design	DC braking, compound braking, resistance braking with integrated brake chopper (for size FSGX optional)

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