

SIEMENS

Product data sheet

6SL3525-0PE25-5AA1



Abb. ähnlich

SINAMICS G120D POWER MODULE PM250D WITH BUILT IN CL. A FILTER POSSIBILITY OF REGENERATION 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 5,5KW FOR 200% 3S,150% 60S,100% 300S AMBIENT TEMP -10 TO +55 DEG C 210 X 450 X 220 (HXWXD), FSC PROTECTION IP65 WITHOUT CONTROL UNIT

product brand name	SINAMICS
Product-type designation	G120D
Relative humidity	
• maximum	95 %
• note	at 40 °C (104 °F); RH, condensation not permissible
Power factor (p.f.)	0.95
Design of the brake	DC braking
• note	Integrated brake control supplies DC supply voltage for the brake; the DC shutdown enables fast braking.
Output current / for the brake output	
• with UL approval / maximum	600 mA
• without UL approval / maximum	1 A
Protection function	
• parameter lock	Yes
• phase failure detection	Yes

Power loss	0.209 kW
Released active power / Rated value	5.5 kW
Active power output (hp) / rated value	7.5 hp
Input current / rated value	12.2 A
Output current / rated value	13.2 A
Number of phases / of output voltage	3
Output voltage / rated value	400 V
Output current	
• without overload	13.2 A
• max.	26.4 A
Emitted active power	
• at rated value of output voltage	5.5 kW
• at rated value of output voltage	5.5 kW
Efficiency	0.97
Cooling air flow	0.018 m³/s
1m measuring surface sound pressure level	74.5 dB
Design of electrical connection	
• for PE conductor	On housing with M5 screw
• for mains supply line	HAN Q4/2 (connector)
• of motor	HAN Q8 (socket)
Connectable cable cross-section	
• for mains supply line	4 ... 6 mm²
• for PE conductor	10 ... 16 mm²
• for PE conductor / maximum / note	Recommended conductor cross-section, external connection
• for motor supply line	4 mm²
Cable length / for motor	
• shielded	15 m
• unshielded	30 m
Protection class	IP65/UL Type 3
width	445 mm
height	210 mm
depth	220 mm
Frame size	FSC

Weight, approx.	8.5 kg
General technical data of power electronics	
Input voltage	
• number of phases	3
• type of voltage	AC
Line voltage	380 ... 500 V
Line voltage / relative positive tolerance	10 %
Line voltage / relative negative tolerance	-10 %
Mains demand for short-circuit voltage	<=1 %
Electrical input frequency	47 ... 63 Hz
Electrical output frequency	
• for U/f control	0 ... 650 Hz
• for vector control	0 ... 200 Hz
Pulse frequency	4 kHz
Output voltage in percent	
• referred to input voltage	0 ... 87 %
Type of duty cycle duration / with high overload	Average maximum rated output current during a cycle time of 300 s; 1.5 x rated output current (i.e. 150% overload) for 60 s with a cycle time of 300 s; 2 x rated output current (i.e. 200% overload) for 3 s with a cycle time of 300 s
Type of cooling	air cooling as required using the integrated fan
Installation altitude at height above sea level without power reduction, max.	1000 m
Short-time withstand current (SCCR)	40 kA
Protection function	
• undervoltage protection	Yes
• overvoltage protection	Yes
• overload protection	Yes
• ground-fault protection	Yes
• short-circuit protection	Yes
• stall protection	Yes
• for blocked rotor	Yes
Protection function / for motor	
• temperature monitoring	Yes

• temperature monitoring	Yes
Mechanical data	
Vibration frequency	
• with constant acceleration	
• during transport	9 ... 200 Hz constant acceleration = 9.81 m/s ² (1 × g)
• in accordance with EN 60068-2-6	
• during operation	58 ... 200 Hz constant acceleration = 19.62 m/s ² (2 × g)
• in accordance with EN 60068-2-6	
• with constant deflection	
• during transport	5 ... 9 Hz Constant deflection 3.1 mm
• in accordance with EN 60068-2-6	
• during operation	10 ... 58 Hz constant deflection 0.15 mm
• in accordance with EN 60068-2-6	
Shock acceleration	
• during transport	
• in accordance with EN 60068-2-27	147.15 m/s ²
• note	(15 × g)/11 ms, 3 shocks in each axis and direction
• during operation	
• in accordance with EN 60068-2-27	147.15 m/s ²
• note	(15 × g)/11 ms, 3 shocks in each axis and direction
Ambient conditions	
mounting position	Horizontal wall mounting and mounting in the horizontal position
Equipment protection class	Class III (PELV)
Touch protection	Class I (with protective conductor system)
Ambient temperature, during	
• storage	-40 ... +70 °C
• transport	-40 ... +70 °C
• operation	-10 ... +55 °C
Ambient temperature (°F)	
• during storage	-40 ... +158 °F
• maximum	According to EN 60068-2-1
• during transport	-40 ... +158 °F
• maximum	According to EN 60068-2-1
• during operation	14 ... 131 °F

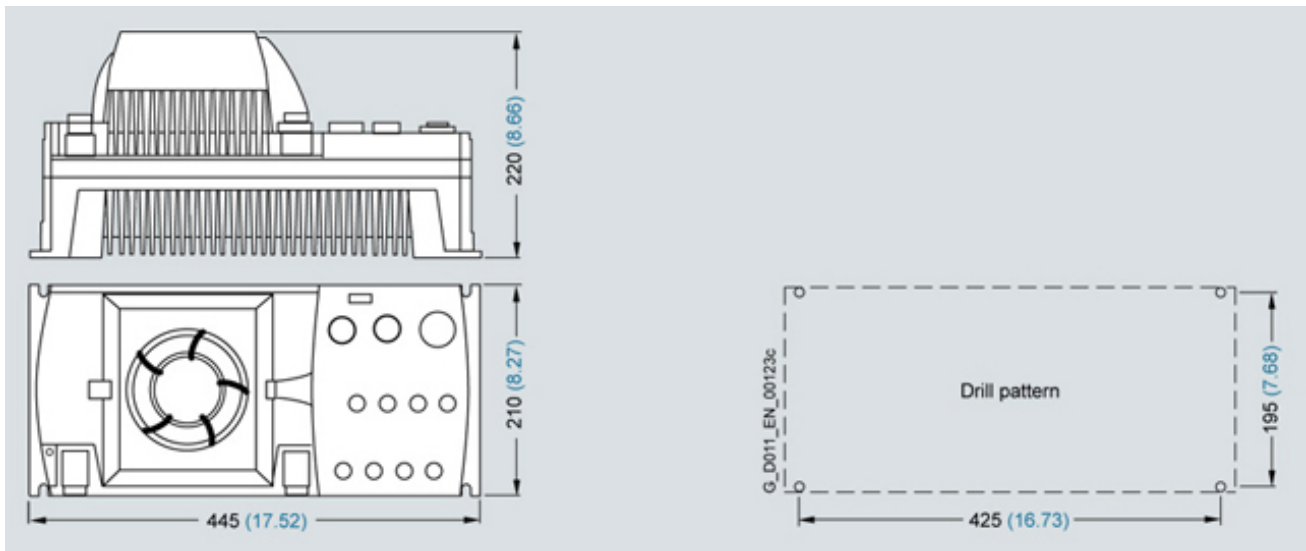
• maximum	According to EN 60068-2-2
	Class 3C2 to EN 60721-3-3
	2 acc. to EN 61800-5-1
Standards	
Approval, accord. to	UL 508C (UL list number E121068), CE, c-tick
Verification of suitability	
• for fail-safety	According to EN 954-1: Category 3, according to IEC 61508: SIL 2, according to ISO 13849-1: PL d, PFHD: 5×10^{-8} , T1: 20 years
• for CE marking	Low-Voltage Directive 2006/95/EC
Standard	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	Yes
Design of line filter	Class A
Weitere Informationen	

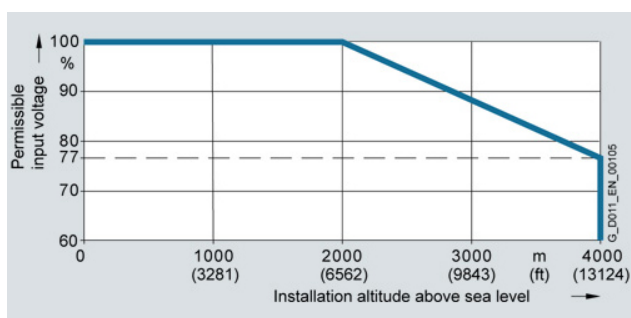
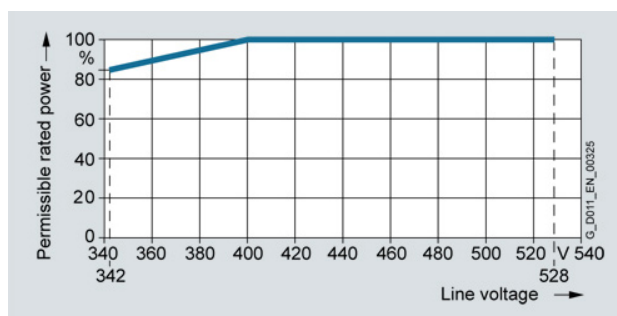
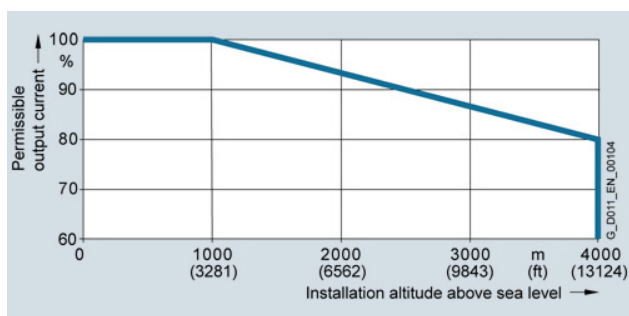
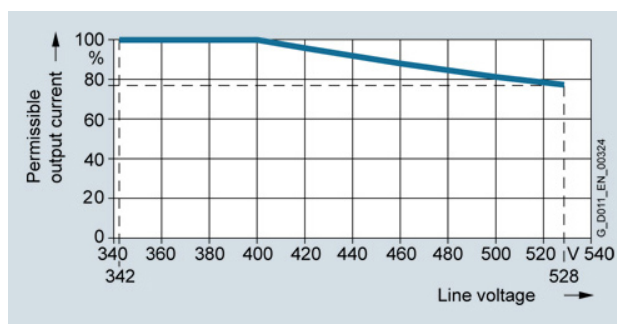
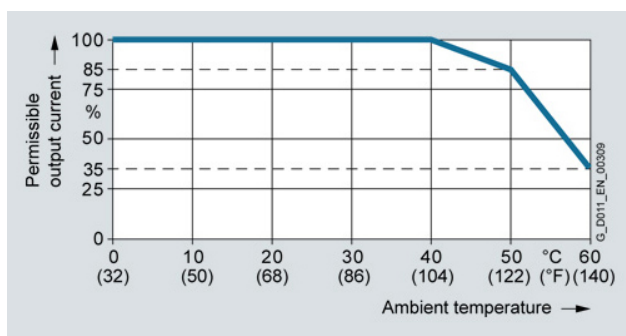
[Informations- und Downloadcenter der Industrie Automation und Antriebstechnik](#)

[Technische Dokumentation \(Motion Control\)](#)

[Industry Mall \(Online-Bestellsystem\)](#)

[Service & Support \(FAQs, Handbücher, Betriebsanleitungen, Zertifikate, Kennlinien, ...\)](#)





letzte Änderung:

Jul 14, 2014