

# SIEMENS

## Product data sheet

## 6SL3511-0PE23-0AM0



Abb. ähnlich

SINAMICS G110D AC-DRIVE,  
W/O REPAIR SWITCH WITH BUILT IN CL. A FILTER  
WITH BULT IN BRAKING CHOPPER WITH AS-  
INTERFACE BUS INTERFACE 3AC380-500V +10/-  
10% 47-63HZ OUTPUT HIGH OVERLOAD: 3,0KW  
FOR 200% 3S,150% 60S,100% 300S AMBIENT  
TEMP -10 TO +40 DEG C 210 X 450 X 145 (HXWXD),  
FSA PROTECTION IP65 WITHOUT OPERATOR  
PANEL

product brand name	SINAMICS
Product-type designation	G110D
<b>Electrical data</b>	
Operational voltage / from external supply voltage / with DC	24 V
Consumed current / maximum	320 mA
• note	from the unswitched 24 V supply, yellow AS-Interface cable
Relative humidity	
• maximum	95 %
• note	at 40°C (104°F); RH, condensation not permitted
Design of the break	DC braking
• note	Integrated brake control provides brake with DC supply voltage; the DC-side disconnection enables "fast" braking
• with UL approval / maximum	600 mA

• without UL approval / maximum	1 A
Protection function / parameter lock	Yes
Current consumption	
• without supplementary fan / maximum	180 mA
• note	from the switched 24 V supply, black AS-Interface cable, without additional fan
• with supplementary fan / maximum	350 mA
• note	from the switched 24 V supply, black AS-Interface cable, with additional fan
Design of the drive/storage medium	1 SINAMICS Micro Memory Card (MMC), 1 SIMATIC Memory Card (SD card)
Product expansion / for storage medium	Memory card slot, optional
Released active power / Rated value	3 kW
Active power output (hp) / rated value	4 hp
Input current / rated value	7 A
Output current / rated value	7.7 A
Number of fixed frequencies / parameterizable	6
<b>I/O interfaces</b>	
Digital inputs	4
Analog inputs	1
PTC/KTY interface	1 input, connectable sensors: PTC, KTY or Thermo-Click, connection via Power Modules
Type of control / of mechanical holding brake / of motor	Connection via Power Modules
<b>Integrated bus interface</b>	
Protocol / for bus system	USS
Design of the interface / for bus system	RS232
<b>Tool interfaces</b>	
Design of the interface	Intelligent Operator Panel IOP
Design of the interface	
• for PC interface	USB
• for bus system	AS-Interface
<b>Open-loop/closed-loop control techniques</b>	
• linear or quadratic parameterization	Yes
• flux current control	Yes
Output current / max.	15.4 A

Efficiency	0.95
Design of electrical connection / of motor	HAN Q8 (socket)
Design of electrical connection / of RS 232 interface	Connection to RS232 interface cable via the optical interface of the converter
Design of the electrical connection / of the USB interface	Connection to USB interface cable via the optical interface of the converter
Design of electrical connection / at line supply conductor	HAN Q4/2 (connector)
Connectable cable cross-section	
• for mains supply line	2.5 ... 6 mm <sup>2</sup>
• for motor supply line	2.5 ... 4 mm <sup>2</sup>
Cable length / for motor	
• shielded	15 m
• unshielded	30 m
Protection class	IP65/UL Type 3
Dimensions / width	445 mm
Dimensions / height	210 mm
Dimensions / depth	125 mm
Frame size	FSA
Weight, approx.	6.9 kg
<b>General technical data of power electronics</b>	
Input voltage / number of phases	3
Line voltage	380 ... 500 V
Line voltage / relative positive tolerance	10 %
Line voltage / relative negative tolerance	-10 %
Mains demand for short-circuit voltage	No restriction
Electrical input frequency	47 ... 63 Hz
• for U/f control	0 ... 650 Hz
Pulse frequency	4 kHz
Power factor	0.7 ... 0.85
Output voltage in percent / referred to input voltage	0 ... 87 %

Type of duty cycle duration / with high overload	Average max. rated output current during a cycle time of 300 s; 1.5 × rated output current (i.e. 150% overload) for 60 s with a cycle time of 300 s; 2 × rated output current (i.e. 200 % overload) for 3 s with a cycle time of 300 s
Type of cooling	Convection
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
<b>Mechanical data</b>	
Vibration frequency	
• with constant acceleration	
• during transport	9 ... 200 Hz
• in accordance with EN 60068-2-6	Constant acceleration = 9.81 m/s <sup>2</sup> (1 x g)
• during operation	9 ... 200 Hz
• in accordance with EN 60068-2-6	Constant acceleration = 19.62 m/s <sup>2</sup> (2 x g)
• with constant deflection	
• during transport	5 ... 9 Hz
• in accordance with EN 60068-2-6	Constant deflection 3.1 mm
• during operation	2 ... 9 Hz
• in accordance with EN 60068-2-6	Constant deflection 7 mm
Shock acceleration	
• during transport	
• in accordance with EN 60068-2-27	147.15 m/s <sup>2</sup>
• note	(15 × g)/11 ms, 3 shocks in each axis and direction

<ul style="list-style-type: none"> <li>• during operation           <ul style="list-style-type: none"> <li>• in accordance with EN 60068-2-27</li> <li>• note</li> </ul> </li> </ul>	<p>147.15 m/s<sup>2</sup></p> <p>(15 x g)/11 ms, 3 shocks in each axis and direction</p>
<b>Ambient conditions</b>	
mounting position	Horizontal wall mounting and "flat" mounting
Equipment protection class	Class III (PELV)
Touch protection	Class I (with protective conductor system)
Ambient temperature, during <ul style="list-style-type: none"> <li>• storage</li> <li>• transport</li> <li>• operation</li> </ul>	<p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p> <p>-10 ... +40 °C</p>
Ambient temperature (°F) <ul style="list-style-type: none"> <li>• during storage           <ul style="list-style-type: none"> <li>• maximum</li> </ul> </li> <li>• during transport           <ul style="list-style-type: none"> <li>• maximum</li> </ul> </li> <li>• during operation           <ul style="list-style-type: none"> <li>• maximum</li> </ul> </li> </ul>	<p>-40 ... +158 °F</p> <p>According to EN 60068-2-1</p> <p>-40 ... +158 °F</p> <p>According to EN 60068-2-1</p> <p>14 ... 104 °F</p> <p>According to EN 60068-2-2</p>
	Class 3C2 to EN 60721-3-3
	2 according to EN 61800-5-1
<b>Standards</b>	
Approval, accord. to	UL 508C (UL list number E121068), CE, c-Tick
Verification of suitability / 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. The frequency inverters on their own do not genera
Product component	Yes
Design of line filter	Class A

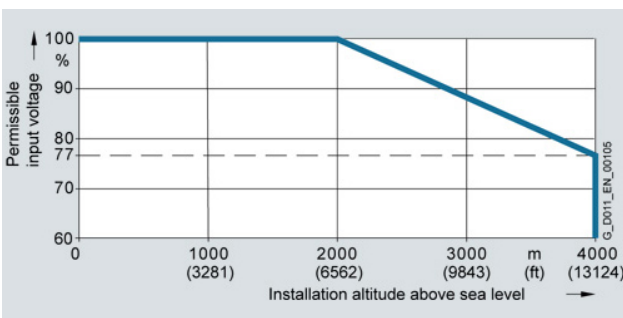
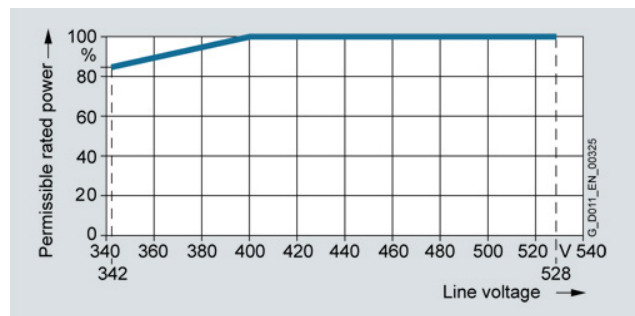
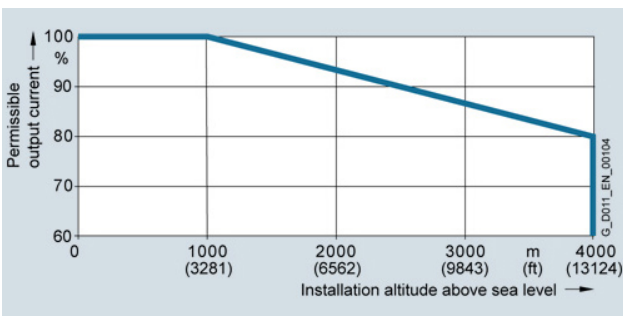
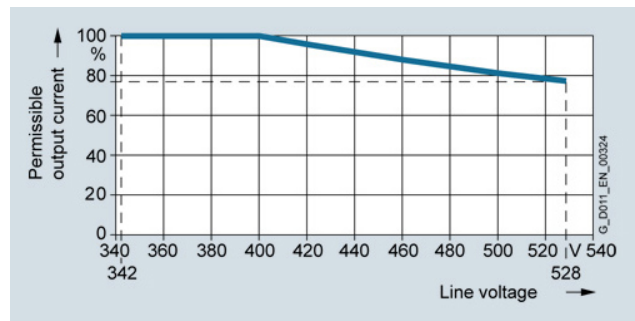
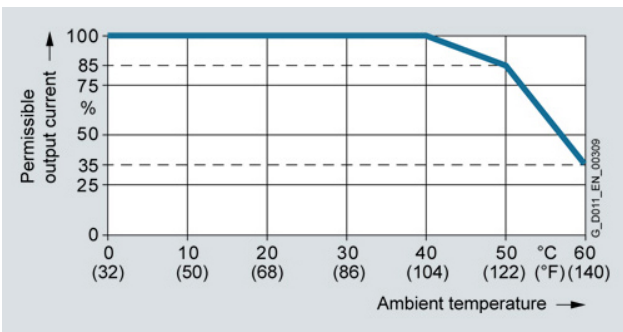
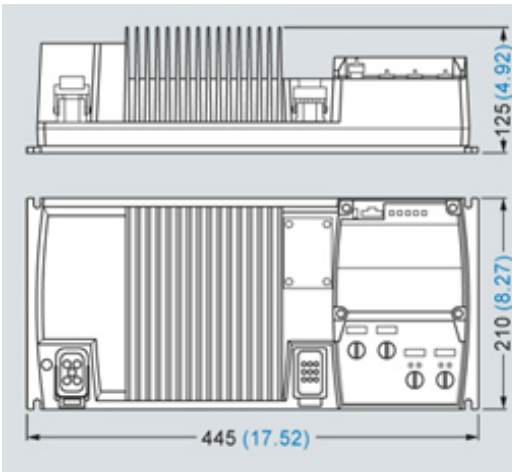
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[Industry Mall \(Online-Bestellsystem\)](#)

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



letzte Änderung:

Jul 14, 2014