

SIEMENS

Product data sheet

6SL3511-0PE25-5AM0



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: 5,0KW
FOR 200% 3S,150% 60S,100% 300S AMBIENT
TEMP -10 TO +40 DEG C 210 X 450 X 240 (HXWXD),
FSC PROTECTION IP65 WITHOUT OPERATOR
PANEL

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| product brand name | SINAMICS |
| Product-type designation | G110D |
| Electrical data | |
| 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 |

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| • 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 | 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 fixed frequencies / parameterizable | 6 |
| I/O interfaces | |
| 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 |
| Integrated bus interface | |
| Protocol / for bus system | USS |
| Design of the interface / for bus system | RS232 |
| Tool interfaces | |
| Design of the interface | Intelligent Operator Panel IOP |
| Design of the interface | |
| • for PC interface | USB |
| • for bus system | AS-Interface |
| Open-loop/closed-loop control techniques | |
| • linear or quadratic parameterization | Yes |
| • flux current control | Yes |
| Output current / max. | 26.4 A |

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| 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 | 4 ... 6 mm ² |
| • for motor supply line | 4 mm ² |
| 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 | 240 mm |
| Frame size | FSC |
| Weight, approx. | 9.4 kg |
| General technical data of power electronics | |
| 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 % |

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| 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 | demand-driven air cooling via 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 |
| • in accordance with EN 60068-2-6 | Constant acceleration = 9.81 m/s ² (1 x g) |
| • during operation | 9 ... 200 Hz |
| • in accordance with EN 60068-2-6 | Constant acceleration = 19.62 m/s ² (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 ² |
| • note | (15 × g)/11 ms, 3 shocks in each axis and direction |

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|--|---|
| <ul style="list-style-type: none"> • during operation <ul style="list-style-type: none"> • in accordance with EN 60068-2-27 • note | <p>147.15 m/s²</p> <p>(15 x g)/11 ms, 3 shocks in each axis and direction</p> |
| Ambient conditions | |
| 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"> • storage • transport • operation | <p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p> <p>-10 ... +40 °C</p> |
| Ambient temperature (°F) <ul style="list-style-type: none"> • during storage <ul style="list-style-type: none"> • maximum • during transport <ul style="list-style-type: none"> • maximum • during operation <ul style="list-style-type: none"> • maximum | <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 |
| Standards | |
| 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 |

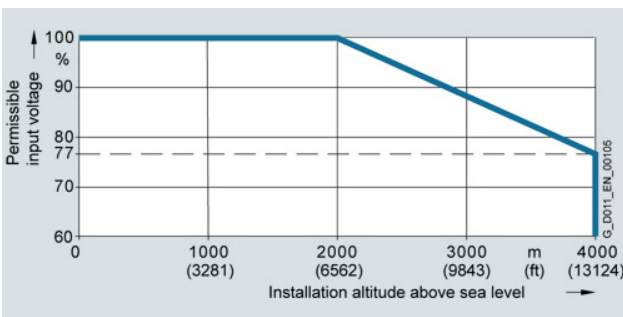
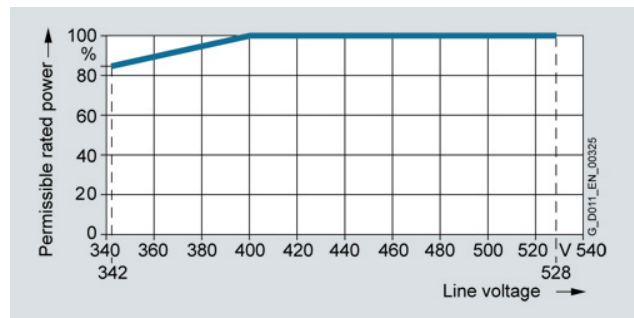
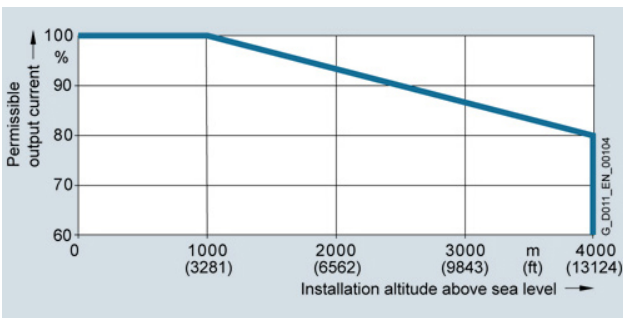
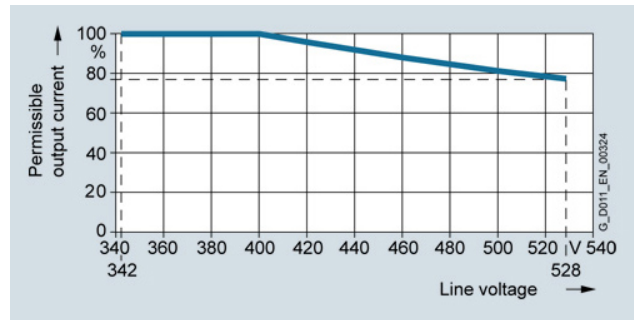
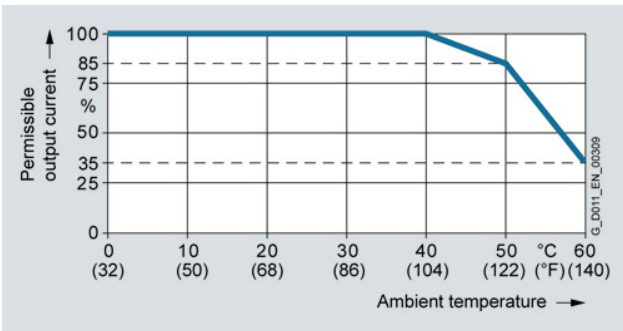
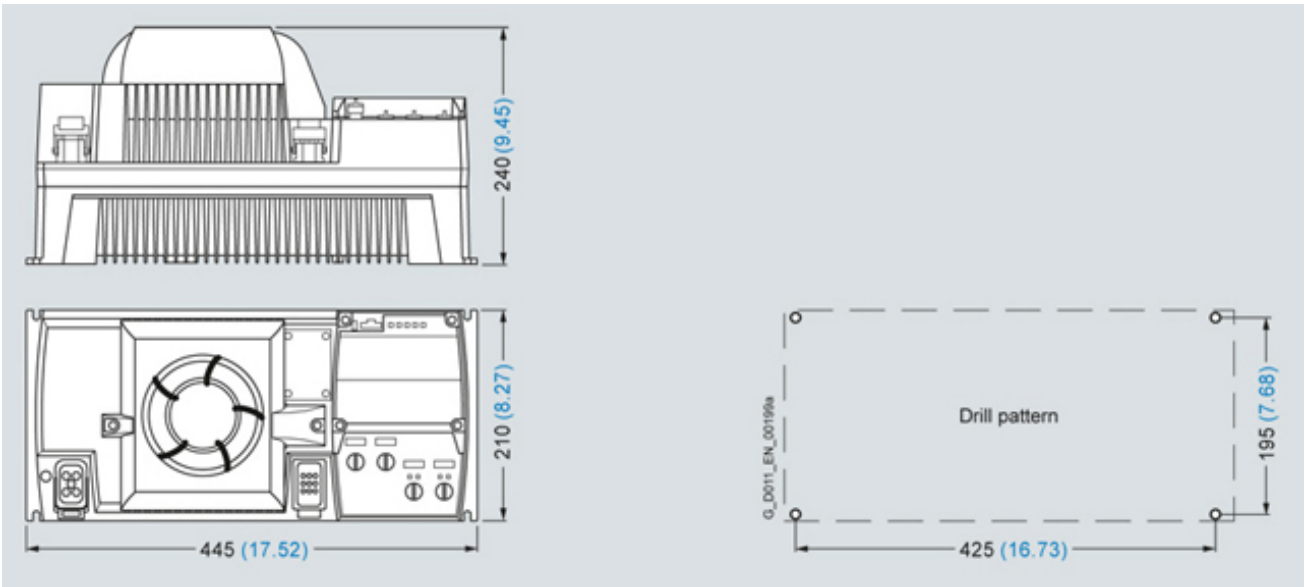
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letzte Änderung:

Jul 14, 2014