

订货号 : 6SL3210-1KE22-6UP1  
Article No. :



图像类似  
Figure similar

客户订单号 :  
Client order no. :  
西门子订单号 :  
Order no. :  
报价号 :  
Offer no. :  
注释 :  
Remarks :

物品号 :  
Item no. :  
托运号 :  
Consignment no. :  
项目 :  
Project :

额定数据  
Rated data

|                                 |                           |  |
|---------------------------------|---------------------------|--|
| 输入<br>Input                     |                           |  |
| 相位数<br>Number of phases         | 3 AC                      |  |
| 电源电压<br>Line voltage            | 380 ... 480 V +10 % -20 % |  |
| 电源频率<br>Line frequency          | 47 ... 63 Hz              |  |
| 额定电流 (LO)<br>Rated current (LO) | 33.00 A                   |  |
| 额定电流 (HO)<br>Rated current (HO) | 24.10 A                   |  |

|                                                   |              |                        |
|---------------------------------------------------|--------------|------------------------|
| 输出<br>Output                                      |              |                        |
| 相位数<br>Number of phases                           | 3 AC         |                        |
| 额定电压<br>Rated voltage                             | 400V IEC     | 480V NEC <sup>1)</sup> |
| 额定功率 (LO)<br>Rated power (LO)                     | 11.00 kW     | 15.00 hp               |
| 额定功率 (HO)<br>Rated power (HO)                     | 7.50 kW      | 10.00 hp               |
| 额定电流 (LO)<br>Rated current (LO)                   | 25.00 A      |                        |
| 额定电流 (HO)<br>Rated current (HO)                   | 16.50 A      |                        |
| 额定电流 (IN)<br>Rated current (IN)                   | 26.00 A      |                        |
| 最大输出电流<br>Max. output current                     | 33.00 A      |                        |
| 脉冲频率<br>Pulse frequency                           | 4 kHz        |                        |
| 矢量控制时的输出频率<br>Output frequency for vector control | 0 ... 240 Hz |                        |
| V/f控制时的输出频率<br>Output frequency for V/f control   | 0 ... 550 Hz |                        |

过载能力  
Overload capability

|                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 低过载 (LO)<br>Low Overload (LO)                                                                                                                                                                                                                                    |
| 3 秒的 150 % 基本负载电流 IL，接下来在一个 300 秒的循环时间中有 57秒的110 % 基本负载电流 IL<br>150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time                                                                                        |
| 高过载 (HO)<br>High Overload (HO)                                                                                                                                                                                                                                   |
| 振动测试（根据 IEC 60068-2-6 的测试 Fc；正弦；9 至 29 Hz（振幅 0.3mm）；29 至 200 Hz（加速度 1g）；10 个频率周期（每轴））；冲击测试（根据IEC 60068-2-27 的测试 Ea；半正弦；5g 峰值加速；持续时间 30 ms（每个方向3 次冲击））<br>200% base load current IH for 3 s, followed by 150% base load current IH for 57 s in a 300 s cycle time |

通用技术参数  
General tech. specifications

|                                          |                   |
|------------------------------------------|-------------------|
| 功率系数 λ<br>Power factor λ                 | 0.70 ... 0.85     |
| 偏移角 cos φ<br>Offset factor cos φ         | 0.95              |
| 效率 η<br>Efficiency η                     | 0.97              |
| 声压级 LpA(1m)<br>Sound pressure level (1m) | 66 dB             |
| 损耗功率<br>Power loss                       | 292.0 W           |
| 滤波器等级（集成式）<br>Filter class (integrated)  | 未滤波<br>Unfiltered |

通讯  
Communication

|                     |                            |
|---------------------|----------------------------|
| 通讯<br>Communication | PROFIBUS DP<br>PROFIBUS DP |
|---------------------|----------------------------|

## SINAMICS G120C 数据表

Data sheet for SINAMICS G120C

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| 输入/输出<br>Inputs / outputs                                                                                                                                                 |                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 数字量输入 - 标准<br>Standard digital inputs                                                                                                                                     |                                        |
| 数量<br>Number                                                                                                                                                              | 6                                      |
| 开关电平: 0→1<br>Switching level: 0→1                                                                                                                                         | 11 V                                   |
| 开关电平: 1→0<br>Switching level: 1→0                                                                                                                                         | 5 V                                    |
| 最大接通电流<br>Max. inrush current                                                                                                                                             | 15 mA                                  |
| 故障安全数字量输入<br>Fail-safe digital inputs                                                                                                                                     |                                        |
| 数量<br>Number                                                                                                                                                              | 1                                      |
| 数字量输出<br>Digital outputs                                                                                                                                                  |                                        |
| 作为继电器转换器的数量<br>Number as relay changeover contact                                                                                                                         | 1                                      |
| 输出 (欧姆负载)<br>Output (resistive load)                                                                                                                                      | DC 30 V, 0.5 A                         |
| 作为晶体管的数量<br>Number as transistor                                                                                                                                          | 1                                      |
| 输出 (欧姆负载)<br>Output (resistive load)                                                                                                                                      | DC 30 V, 0.5 A                         |
| 模拟量/数字量输入<br>Analog / digital inputs                                                                                                                                      |                                        |
| 数量<br>Number                                                                                                                                                              | 1 (压差输入端)<br>1 (Differential input)    |
| 分辨率<br>Resolution                                                                                                                                                         | 10 位                                   |
| 作为数字量输入的接通阈值<br>Switching threshold as digital input                                                                                                                      |                                        |
| 0→1                                                                                                                                                                       | 4 V                                    |
| 1→0                                                                                                                                                                       | 1.6 V                                  |
| 模拟量输出<br>Analog outputs                                                                                                                                                   |                                        |
| 数量<br>Number                                                                                                                                                              | 1 (电位相关输出端)<br>1 (Non-isolated output) |
| PTC/ KTY接口<br>PTC/ KTY interface                                                                                                                                          |                                        |
| 1 个电机温度传感器输入端, 可连接的 PTC 传感器, KTY 和Thermo-Click, 准确度在 ±5 °C 内<br>1 motor temperature sensor input, sensors that can be connected PTC, KTY and Thermo-Click, accuracy ±5 °C |                                        |

| 闭环控制方式<br>Closed-loop control techniques                    |                                                                                                    |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| V/f线性/平方/可参数设置<br>V/f linear / square-law / parameterizable | 是<br>Yes                                                                                           |
| V/f, 带磁通电流控制 (FCC)<br>V/f with flux current control (FCC)   | 是<br>Yes                                                                                           |
| V/f ECO 线性/平方<br>V/f ECO linear / square-law                | 是<br>Yes                                                                                           |
| 矢量控制, 无编码器<br>Sensorless vector control                     | 是<br>Yes                                                                                           |
| 矢量控制, 带编码器<br>Vector control, with sensor                   | 否<br>No                                                                                            |
| 转矩控制, 无编码器<br>Encoderless torque control                    | 否<br>No                                                                                            |
| 转矩控制, 带编码器<br>Torque control, with encoder                  | 否<br>No                                                                                            |
| 环境条件<br>Ambient conditions                                  |                                                                                                    |
| 冷却<br>Cooling                                               | 通过集成的风扇进行空气冷却<br>Air cooling using an integrated fan                                               |
| 冷却空气需求<br>Cooling air requirement                           | 0.018 m³/s (0.636 ft³/s)                                                                           |
| 安装高度<br>Installation altitude                               | 1,000 米 (3,280.84 ft)                                                                              |
| 环境温度<br>Ambient temperature                                 |                                                                                                    |
| 运行<br>Operation                                             | -10 ... 40 °C (14 ... 104 °F)                                                                      |
| 运输<br>Transport                                             | -40 ... 70 °C (-40 ... 158 °F)                                                                     |
| 存放温度<br>Storage                                             | -40 ... 70 °C (-40 ... 158 °F)                                                                     |
| 相对空气湿度<br>Relative humidity                                 |                                                                                                    |
| 运行, 最大<br>Max. operation                                    | 95 % 40 °C (104 °F) 时, 禁止发生凝露和结冰<br>95 % At 40 °C (104 °F), condensation and icing not permissible |

SINAMICS G120C 数据表

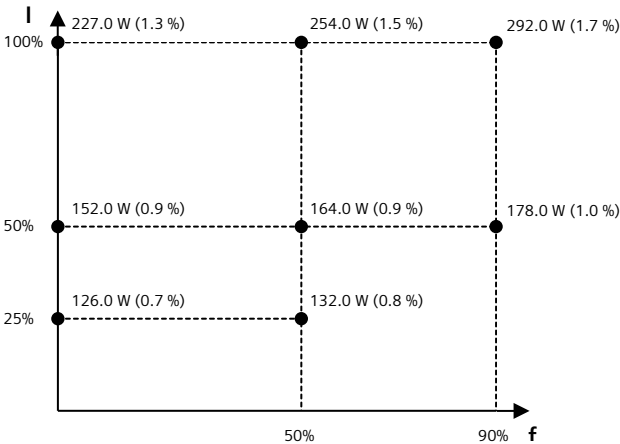
Data sheet for SINAMICS G120C

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| 接口<br>Connections                              |                                           |
|------------------------------------------------|-------------------------------------------|
| 信号电缆<br>Signal cable                           |                                           |
| 接口横截面<br>Conductor cross-section               | 0.15 ... 1.50 mm²<br>(AWG 24 ... AWG 16)  |
| 电源侧<br>Line side                               |                                           |
| 规格<br>Version                                  | 插接式螺钉型端子<br>Plug-in screw terminals       |
| 接口横截面<br>Conductor cross-section               | 6.00 ... 16.00 mm²<br>(AWG 10 ... AWG 6)  |
| 电机侧<br>Motor end                               |                                           |
| 规格<br>Version                                  | 插接式螺钉型端子<br>Plug-in screw terminals       |
| 接口横截面<br>Conductor cross-section               | 6.00 ... 16.00 mm²<br>(AWG 10 ... AWG 6)  |
| 直流母线（用于制动电阻）<br>DC link (for braking resistor) |                                           |
| 规格<br>Version                                  | 插接式螺钉型端子<br>Plug-in screw terminals       |
| 接口横截面<br>Conductor cross-section               | 6.00 ... 16.00 mm²<br>(AWG 10 ... AWG 6)  |
| 最大电缆长度<br>Line length, max.                    | 15 米 (49.21 ft)                           |
| PE 端子<br>PE connection                         | 在带有 M4 螺丝的外壳上<br>On housing with M4 screw |
| 最大电机电缆长度<br>Max. motor cable length            |                                           |
| 屏蔽<br>Shielded                                 | 150 米 (492.13 ft)                         |
| 非屏蔽<br>Unshielded                              | 150 米 (492.13 ft)                         |
| 机械数据<br>Mechanical data                        |                                           |
| 防护等级<br>Degree of protection                   | IP20 / UL 开放式<br>IP20 / UL open type      |
| 外形尺寸<br>Frame size                             | F5C                                       |
| 净重<br>Net weight                               | 4.40 kg (9.70 lb)                         |
| 外形尺寸<br>Dimensions                             |                                           |
| 宽度<br>Width                                    | 140 mm (5.51 in)                          |
| 高度<br>Height                                   | 295 mm (11.61 in)                         |
| 深度<br>Depth                                    | 203 mm (7.99 in)                          |

| 标准<br>Standards                                                             |                                                                                                      |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 符合标准<br>Compliance with standards                                           | UL, cUL, CE, C-Tick (RCM)<br>UL, cUL, CE, C-Tick (RCM)                                               |
| CE 标志<br>CE marking                                                         | EMV 准则 2004 / 108/EG, 低压准则 2006/95/EG<br>EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC |
| 符合IEC61800-9-2的变频器损耗*<br>Converter losses to IEC61800-9-2*                  |                                                                                                      |
| 效率等级<br>Efficiency class                                                    | IE2                                                                                                  |
| 对比参考变频器（90% / 100%）<br>Comparison with the reference converter (90% / 100%) |                                                                                                      |
| 对比参考变频器（90% / 100%）<br>Comparison with the reference converter (90% / 100%) | 32.5 %                                                                                               |



百分比值给定了以变频器额定视在功率为基准的损耗。  
The percentage values show the losses in relation to the rated apparent power of the converter.

该图显示了相对转矩电流（I）超过相对电机定子频率（f）时间点（根据标准 IEC61800-9-2）上的损耗。这些值适用于不带选件/附件的基本型变频器。  
The diagram shows the losses for the points (as per standard IEC61800-9-2) of the relative torque generating current (I) over the relative motor stator frequency (f). The values are valid for the basic version of the converter without options/components.

\* 计算值  
\*calculated values

<sup>1)</sup> 输出电流和功率数据适用于电压范围 440 V 到 480 V  
The output current and HP ratings are valid for the voltage range 440V-480V