

订货号：6SL3210-1KE26-0UB1  
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<br>Rated data |
|--------------------|

输入  
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) | 53.00 A                   |
| 额定电流 (HO)<br>Rated current (HO) | 44.00 A                   |

输出  
Output

|                                                   |                     |
|---------------------------------------------------|---------------------|
| 相位数<br>Number of phases                           | 3 AC                |
| 额定电压<br>Rated voltage                             | 400V IEC480V NEC 1) |
| 额定功率 (LO)<br>Rated power (LO)                     | 30.00 kW30.00 hp    |
| 额定功率 (HO)<br>Rated power (HO)                     | 22.00 kW25.00 hp    |
| 额定电流 (LO)<br>Rated current (LO)                   | 58.00 A             |
| 额定电流 (HO)<br>Rated current (HO)                   | 43.00 A             |
| 额定电流 (IN)<br>Rated current (IN)                   | 58.00 A             |
| 最大输出电流<br>Max. output current                     | 87.00 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<br>General tech. specifications |
|----------------------------------------|

|                                          |                   |
|------------------------------------------|-------------------|
| 功率系数 λ<br>Power factor λ                 | 0.90 ... 0.95     |
| 偏移角 cos φ<br>Offset factor cos φ         | 0.99              |
| 效率 η<br>Efficiency η                     | 0.98              |
| 声压级 LpA(1m)<br>Sound pressure level (1m) | 72 dB             |
| 损耗功率<br>Power loss                       | 1,040.0 W         |
| 滤波器等级（集成式）<br>Filter class (integrated)  | 未滤波<br>Unfiltered |

|                     |
|---------------------|
| 通讯<br>Communication |
|---------------------|

|                     |                                  |
|---------------------|----------------------------------|
| 通讯<br>Communication | USS/MODBUS RTU<br>USS/MODBUS RTU |
|---------------------|----------------------------------|

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                           | 0.055 m³/s (1.942 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                                             | -20 ... 40 °C (-4 ... 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 % RH，禁止凝露<br>95 % RH, condensation not permitted  |

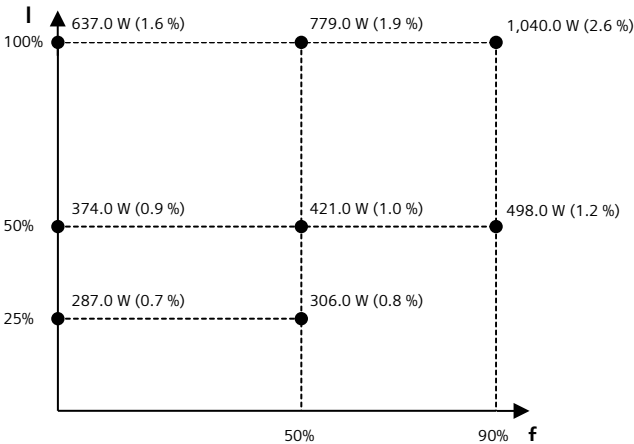
SINAMICS G120C 数据表
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Table with 2 columns: Feature, Specification. Rows include: 接口 (Connections), 信号电缆 (Signal cable), 接口横截面 (Conductor cross-section), 电源侧 (Line side), 规格 (Version), 螺钉型接线端子 (screw-type terminal), 接口横截面 (Conductor cross-section), 电机侧 (Motor end), 规格 (Version), 螺钉型端子 (Screw-type terminals), 接口横截面 (Conductor cross-section), 直流母线 (用于制动电阻) (DC link (for braking resistor)), 规格 (Version), 螺钉型端子 (Screw-type terminals), 接口横截面 (Conductor cross-section), 最大电缆长度 (Line length, max.), 10 米 (32.81 ft), PE 端子 (Screw-type terminals), 最大电机电缆长度 (Max. motor cable length), 屏蔽 (200 米 (656.17 ft)), 非屏蔽 (300 米 (984.25 ft)).

Table with 2 columns: Feature, Specification. Rows include: 机械数据 (Mechanical data), 防护等级 (Degree of protection), IP20 / UL 开放式, 外形尺寸 (Frame size), FSD, 净重 (Net weight), 17.10 kg (37.70 lb), 外形尺寸 (Dimensions), 宽度 (Width), 200 mm (7.87 in), 高度 (Height), 472 mm (18.58 in), 深度 (Depth), 237 mm (9.33 in).

Table with 2 columns: Feature, Specification. Rows include: 标准 (Standards), 符合标准 (UL, cUL, CE, C-Tick (RCM)), CE 标志 (EMV 准则 2004 / 108/EG, 低压准则 2006/95/EG), 符合 IEC61800-9-2 的变频器损耗 (Converter losses to IEC61800-9-2\*), 效率等级 (IE2), 对比参考变频器 (90% / 100%) (53.8 %).



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。
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

1) 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