

SINAMICS V20 数据表  
Data sheet for SINAMICS V20

订货号 : 6SL3210-5BB23-0AV0  
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         | 1 AC                      |                        |  |
| 电源电压<br>Line voltage            | 200 ... 240 V -10 % +10 % |                        |  |
| 电源频率<br>Line frequency          | 47 ... 63 Hz              |                        |  |
| 输出<br>Output                    |                           |                        |  |
| 相位数<br>Number of phases         | 3 AC                      |                        |  |
| 额定电压<br>Rated voltage           | 230V IEC                  | 240V NEC <sup>1)</sup> |  |
| 额定功率 (LO)<br>Rated power (LO)   | 3.00 kW                   | 4.00 hp                |  |
| 额定功率 (HO)<br>Rated power (HO)   | 3.00 kW                   | 4.00 hp                |  |
| 额定电流 (LO)<br>Rated current (LO) | 13.60 A                   | 13.60 A                |  |
| 额定电流 (HO)<br>Rated current (HO) | 13.60 A                   | 13.60 A                |  |
| 额定电流 (IN)<br>Rated current (IN) | 13.60 A                   |                        |  |
| 脉冲频率<br>Pulse frequency         | 8.00 kHz                  |                        |  |
| 输出频率<br>Output frequency        | 0 ... 550 Hz              |                        |  |

|                                |                                                                                             |  |
|--------------------------------|---------------------------------------------------------------------------------------------|--|
| 过载能力<br>Overload capability    |                                                                                             |  |
| 低过载 (LO)<br>Low Overload (LO)  | 110 % 的额定输出电流, 持续 60 s, 循环时间 300 s<br>110 % rated output current for 60 s, cycle time 300 s |  |
| 高过载 (HO)<br>High Overload (HO) | 150 % 的额定输出电流, 持续 60 s, 循环时间 300 s<br>150 % rated output current for 60 s, cycle time 300 s |  |

通用技术参数  
General tech. specifications

|                                          |                |
|------------------------------------------|----------------|
| 功率系数 λ<br>Power factor λ                 | 0.72           |
| 偏移角 cos φ<br>Offset factor cos φ         | 0.95           |
| 效率 η<br>Efficiency η                     | 0.98           |
| 滤波器等级 (集成式)<br>Filter class (integrated) | A 级<br>Class A |

通讯  
Communication

|                     |                                    |
|---------------------|------------------------------------|
| 通讯<br>Communication | USS, Modbus RTU<br>USS, Modbus RTU |
|---------------------|------------------------------------|

输入/输出  
Inputs / outputs

|                                                   |                                                                 |
|---------------------------------------------------|-----------------------------------------------------------------|
| 数字量输入 - 标准<br>Standard digital inputs             |                                                                 |
| 数量<br>Number                                      | 4                                                               |
| 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                                                               |
| 作为晶体管的数量<br>Number as transistor                  | 1                                                               |
| 模拟量输入<br>Analog inputs                            |                                                                 |
| 数量<br>Number                                      | 2 (可用于作为附加数字输入端)<br>2 (Can be used as additional digital input) |
| 模拟量输出<br>Analog outputs                           |                                                                 |
| 数量<br>Number                                      | 1                                                               |

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| 环境条件<br>Ambient conditions    |                                |
|-------------------------------|--------------------------------|
| 冷却<br>Cooling                 | 外部风扇<br>External fan           |
| 安装高度<br>Installation altitude | 1,000 米 (3,280.84 ft)          |
| 环境温度<br>Ambient temperature   |                                |
| 运行 <sup>2)</sup><br>Operation | -10 ... 60 °C (14 ... 140 °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 %                           |

| 接口<br>Connections                   |                  |
|-------------------------------------|------------------|
| 最大电机电缆长度<br>Max. motor cable length |                  |
| 屏蔽<br>Shielded                      | 25 米 (82.02 ft)  |
| 非屏蔽<br>Unshielded                   | 50 米 (164.04 ft) |

| 机械数据<br>Mechanical data      |                                                                                        |
|------------------------------|----------------------------------------------------------------------------------------|
| 安装位置<br>Mounting position    | 通孔安装 / 墙面安装 / 密集式结构样式<br>Through-hole mounting / wall mounting / side-by-side mounting |
| 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           | FSC                                                                                    |
| 净重<br>Net weight             | 2.50 kg (5.51 lb)                                                                      |
| 外形尺寸<br>Dimensions           |                                                                                        |
| 宽度<br>Width                  | 184.0 mm (7.24 in)                                                                     |
| 高度<br>Height                 | 182.0 mm (7.17 in)                                                                     |
| 深度<br>Depth                  | 169.0 mm (6.65 in)                                                                     |

| 标准<br>Standards                   |                                                                                    |
|-----------------------------------|------------------------------------------------------------------------------------|
| 符合标准<br>Compliance with standards | CE, cULus, C-Tick (RCM), KC<br>CE, cULus, C-Tick (RCM), KC                         |
| CE 标志<br>CE marking               | EN 61800-5-1 / EN 60204-1 和 EN 61800-3<br>EN 61800-5-1 / EN 60204-1 and EN 61800-3 |

<sup>1)</sup> 输出电流和功率数据适用于电压范围 220 V 到 240 V  
The output current and HP ratings are valid for the voltage range 220V-240V

<sup>2)</sup> 超过 40 °C 时注意降级  
Please observe derating at temperatures of 40 °C or above