SIEMENS

产品信息 Product Information

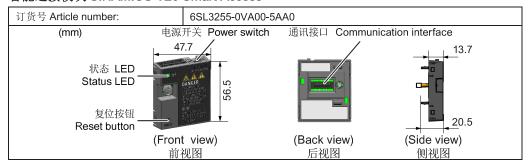
11/2016

SINAMICS V20 智能连接模块(选件) SINAMICS V20 Smart Access (option)

有关模块安装和使用的详细信息,请参见 SINAMICS V20 变频器操作说明。

For more information on how to install and use the module, see SINAMICS V20 Inverter Operating Instructions. (手册下载 Manual download: https://support.industry.siemens.com/cs/ww/en/ps/13208/man)

智能连接模块 SINAMICS V20 Smart Access



功能 Functionality

SINAMICS V20 智能连接模块是一款集成了 Wi-Fi 连接功能的 Web 服务器模块。该模块仅供调试使用,不可长期与变频器共用。通过此模块可实现从所连设备(带无线网卡的传统 PC、平板电脑或者智能手机)对变频器的基于 Web 的访问,从而对变频器进行快速调试、参数设置、JOG、监控、诊断、备份与恢复等操作。

SINAMICS V20 Smart Access is a Web server module with integrated Wi-Fi connectivity. This module is only for commissioning and thus cannot be used with the inverter permanently. It allows Web-based access to the inverter from a connected device (conventional PC with wireless network adapter installed, tablet or smart phone) to realize inverter operations including quick commissioning, inverter parameterization, JOG, monitoring, diagnostics, backup and restore, etc.

状态 LED Status LED

7.65 0.55.00		
LED 颜色 LED color	含义 Meaning	
红色常亮	客户端已连接至模块,模块与变频器 USS 通讯失败。	
Solid red	One client is connected to the module and USS communication between the module and the inverter fails.	
绿色常亮	模块正在工作,客户端已连接至模块。	
Solid green	The module is running and one client is connected to it.	
黄色常亮	模块正在工作,无客户端连接至模块。	
Solid yellow	The module is running and no client is connected to it.	
红色闪烁	无客户端连接至模块,模块与变频器 USS 通讯失败。	
Flashing red	No client is connected to the module and USS communication between the module and the inverter fails.	
绿色闪烁	模块正在工作,一个 WebSocket 通道已连接至模块。	
Flashing green	The module is running and one WebSocket channel is connected to it.	
黄色闪烁	模块重启提醒。	
Flashing yellow	Reminder of restarting the module.	
红色和黄色交替闪烁	模块正在更新 Web 应用程序或固件版本。	
Flashing red and yellow alternatively	The module is upgrading the Web application or firmware.	

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技术规格 Technical specifications

额定电压 / 电压范围 Rated voltage/voltage range	24 V DC
无线技术和工作频率 Wireless technology and working frequency	Wi-Fi 2400 - 2483.5 MHz
无线调制制式 Wireless modulation type	802.11 b/g
天线类型及增益 Antenna type & gain	1.9 dBi
极限工作温度范围 Extreme temperature range	-10 °C ~ 60 °C

说明 Note

无线通讯距离(无屏障)最大可达 140 m,但该值可能随环境条件发生变化。

The wireless communication distance (without barrier) can reach a maximum of 140 m; however, this value can vary with the environmental conditions.

连接设备 Connecting the device

将模块安装至 V20 之前,如果存在 RS485 通讯,必须先通过 BOP 将 P2010[1] 设置为 12。 Before fitting the module to V20, if RS485 communication is present, you must set P2010[1]=12 via the BOP.



首次无线网络连接的操作步骤

Operating sequence for first wireless network connection

- 1. 将模块安装至变频器,并将模块的电源开关滑动至"ON"档给模块上电。 Fit the module to the inverter and power on the module by sliding its power switch to "ON".
- 2. 启用 PC/移动设备内的 Wi-Fi 接口。如需在 PC 上建立无线网络连接,还须检查是否已启用自动 IP 设置。 Activate the Wi-Fi interface inside your PC or mobile device. If you desire to establish the wireless network connection on your PC. additionally you check whether the automatic IP settings are activated.
- 3. 搜索 SINAMICS V20 的无线网络 SSID,例如: "V20 smart access_a4d3e1"。 Search the wireless network SSID of the SINAMICS V20, for example, "V20 smart access_a4d3e1".
- 4. 输入无线网络密码启动连接(默认密码: 12345678)。 Enter the wireless password to launch the connection (default password: 12345678).
- 5. 在 PC 或移动设备浏览器的地址栏中输入网址(http://192.168.1.1) 打开 V20 网页。
 Enter this address (http://192.168.1.1) in the URL bar of the browser on your PC or mobile device to open the V20 Web pages.
- 6. 输入新密码(8至12个字符,仅限于以下三类字符:①字母:A-Z、a-z;②数字:0-9;③特殊字符:_、-、-、'、@、#、\$、%、^、&及*,不可使用空格),按下<OK>按钮确认,模块自动重启。

Enter the new password (8 to 12 characters limited to the following three categories of characters: ① letters: A-Z, a-z; ② numbers: 0-9; ③ special characters: _, -, ~, !, @, #, \$, %, ^, & and *, the space character is not allowed). Confirm the password with the <OK> button, then the module restarts.

注意,该密码设置页包含一个密码强度指示器。指示器条块颜色会根据新密码的复杂程度出现如下变化:

- 一格黄色条块:弱密码。新密码仅包含一类字符。
- 两格黄色条块:中等强度密码。新密码包含两类字符。
- 三格绿色条块:强密码。新密码包含三类字符。

Note that this password setting page includes a password strength indicator. The indicator bar color changes as follows with the complexity of the new password:

- Single yellow bar: weak password. The new password consists of only one category of characters.
- Two yellow bars: middle-strength password. The new password consists of two categories of characters.
- Three green bars: strong password. The new password consists of three categories of characters.
- 7. 输入新设置的 Wi-Fi 密码启动连接。重复执行第 5 步访问 V20 网页。

Enter the new Wi-Fi password to launch the connection. Repeat Step 5 to access the V20 Web pages.

无线网络连接示例 Wireless network connection examples

Windows 7

1. 点击 PC 任务栏中的 4 图标。

Click the icon in the taskbar on your PC.

2. 选择目标网络并输入无线网络密码启动连接。

Select the target network and enter the wireless password to launch the connection.



Android/iOS

进入平板电脑或智能手机的Wi-Fi界面,选择网络并输入无线网络密码启动连接。

Enter the Wi-Fi window of your tablet or smart phone, select the target network and enter the wireless password to launch the connection.



复位 Wi-Fi 配置 Resetting Wi-Fi configuration

变频器处于上电状态时,按下模块上的复位按钮可将 Wi-Fi 配置恢复 至默认设置:

When the inverter is in power-on state, pressing the reset button on the module resets the Wi-Fi configuration to defaults:

Wi-Fi 名称(SSID): V20 smart access_xxxxxx ("xxxxxx"代表模块 MAC 地址最后六个字符)

Wi-Fi name (SSID): V20 smart access_xxxxxx

("xxxxxx" stands for the last six characters of the module MAC address)

Wi-Fi 密码 Wi-Fi password: 12345678

国家代码 Country code: US

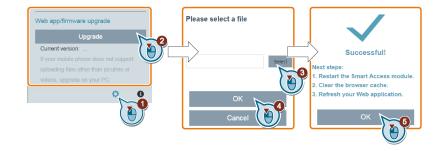
频率通道 Frequency channel: 1

升级 Web 应用程序和变频器固件版本 Upgrading the Web application and inverter firmware

常规升级方法 Conventional upgrading method

- 1. 从此网站下载升级文件至本地磁盘。Download the upgrade file from this Web to your local drive. https://support.industry.siemens.com/cs/ww/en/ps/13208
- 2. 访问 V20 网页(http://192.168.1.1), 按下图进行升级操作。

Access the V20 Web page (http://192.168.1.1). Proceed as follows to perform the upgrade.

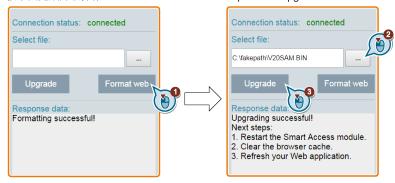


3. 重启模块,清除浏览器缓存并刷新 Web 应用程序。

Restart the module, clear the browser cache and refresh your Web application.

基本升级方法 Basic upgrading method

- 1. 从此网站下载升级文件至本地磁盘。Download the upgrade file from this Web site to your local drive. https://support.industry.siemens.com/cs/ww/en/ps/13208
- 2. 将模块电源开关滑动至 "OFF" 档,按住模块上的复位按钮,然后将电源开关滑动至 "ON" 档。 Slide the power switch of the module to "OFF". Keep the reset button pressed and slide the power switch to "ON".
- 3. 访问此网站打开基本升级网页。Visit this Web site to open the Web page for basic upgrading. http://192.168.1.1/factory/basicupgrade.html
- 4. 按下图完成升级操作。Proceed as follows to complete the upgrade.



5. 重启模块,清除浏览器缓存并刷新 Web 应用程序。

Restart the module, clear the browser cache and refresh your Web application.