

## SINAMICS V20 变频器外接 BOP (基本操作面板) (选件)

### SINAMICS V20 Inverter – External BOP (Basic Operator Panel) (option)

	<p>外接 BOP 用于实现变频器的远程操作控制。当安装在适当的电柜壁上时，外接 BOP 可达到 UL 1 类防护等级。</p> <p>产品组成 (订货号: 6SL3255-0VA00-4BA1) :</p> <ul style="list-style-type: none"> <li>• 外部操作面板</li> <li>• M3 组合螺钉 (x 4)</li> </ul> <p>The external BOP is used for remote control of the inverter operation. When mounted on a suitable cabinet door, the external BOP can achieve a UL Type 1 enclosure rating.</p> <p>Components (order number: 6SL3255-0VA00-4BA1):</p> <ul style="list-style-type: none"> <li>• External BOP</li> <li>• 4 x M3 screws</li> </ul>
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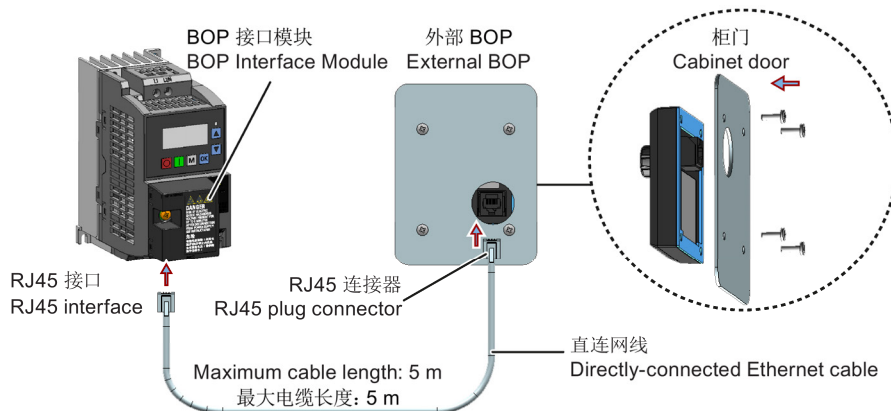
### 外接 BOP 安装尺寸

#### Mounting dimensions of the external BOP

	<p>固定方法: 4 x M3 组合螺钉 (螺钉长度: 8 mm 至 12 mm) 紧固扭矩: 0.8 Nm ± 10%</p> <p>Fixings: 4 x M3 screws (length: 8 mm to 12 mm) Tightening torque: 0.8 Nm ± 10%</p>
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### 接线

#### Connecting

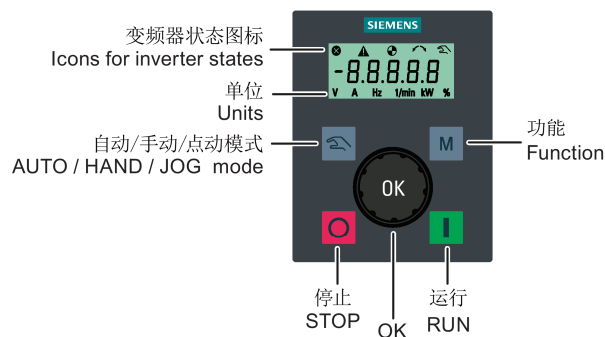


To meet EMC requirements, you must use a directly-connected shielded Ethernet cable, with a maximum length of 3 m.

如要符合 EMC 要求, 必须使用直连屏蔽网线, 且电缆长度不超过 3 m。





## 面板布局



















### Panel layout









## 按钮说明

### Button description

	<p><b>停止变频器</b> 单击：电机按选定的斜坡下降速率减速停车（OFF1）。 <b>例外情况：</b> 此按钮在变频器处于“自动”运行模式且且由外部端子或 RS485 上的 USS/MODBUS 控制（P0700 = 2 或 P0700 = 5）时无效。 双击（&lt; 2 s）或长按（&gt; 3 s）：电机自由停车（OFF2）。</p> <p><b>Stops the inverter</b> Single press: Motor ramps down to a standstill (OFF1). <b>Exception:</b> This button is inactive if the inverter is configured for control from terminals or USS/MODBUS on RS485 (P0700=2 or P0700=5) in AUTO mode. Double press (&lt; 2 s) or long press (&gt; 3 s): Motor coasts down to a standstill (OFF2).</p>
	<p><b>启动变频器</b> 若变频器在“手动”/“点动”/“自动”运行模式下启动，则显示变频器运行图标（）。</p> <p><b>例外情况：</b> 此按钮在变频器处于“自动”运行模式且且由外部端子或 RS485 上的 USS/MODBUS 控制（P0700 = 2 或 P0700 = 5）时无效。</p> <p><b>Starts the inverter</b> If the inverter is started in HAND/JOG/AUTO mode, the inverter running icon () appears. <b>Exception:</b> This button is inactive if the inverter is configured for control from terminals or USS/MODBUS on RS485 (P0700=2 or P0700=5) in AUTO mode.</p>

	<p><b>多功能按钮</b> 功能同内置 BOP 上的  按钮 <b>Multi-function button</b> Button functions the same as the  button on the built-in BOP.</p>
	<p><b>按下按钮：</b> 功能同内置 BOP 上的  按钮。 <b>Pressing the button:</b> Button functions the same as the  button on the built-in BOP.</p> <p><b>顺时针旋转按钮：</b> 功能同内置 BOP 上的  按钮。快速旋转时功能同长按内置 BOP 上的  按钮。 <b>Turning clockwise:</b> Button functions the same as the  button on the built-in BOP. Fast turning functions the same as long press of the  button on the built-in BOP.</p> <p><b>逆时针旋转按钮：</b> 功能同内置 BOP 上的  按钮。快速旋转时功能同长按内置 BOP 上的  按钮。 <b>Turning counter-clockwise:</b> Button functions the same as the  button on the built-in BOP. Fast turning functions the same as long press of the  button on the built-in BOP.</p> <p><b>组合按钮：</b> 此按钮功能同内置操作面板上的  +  组合按钮。 Button functions the same as the  +  buttons on the built-in BOP.</p>

	状态图标	Inverter status icons
	变频器存在至少一个未处理故障。	Inverter has at least one pending fault.
	变频器存在至少一个未处理报警。	Inverter has at least one pending alarm.
	<p><b>常显：</b>变频器在运行中（电机频率可能为 0 转/分）。</p> <p><b>闪烁：</b>变频器可能被意外上电（例如，霜冻保护模式时）。</p>	<p><b>Always on:</b> inverter is running (motor frequency may be 0 rpm).</p> <p><b>Flashing:</b> inverter may be energized unexpectedly (for example, in frost protection mode).</p>
	电机反转。	Motor rotates in the reversed direction.
	<p><b>常显：</b>变频器处于手动模式。</p> <p><b>闪烁：</b>变频器处于点动模式。</p>	<p><b>Always on:</b> inverter is in HAND mode.</p> <p><b>Flashing:</b> inverter is in JOG mode.</p>
	调试图标。出现该图标表明变频器正处于调试模式（P0010 = 1）。	Commissioning icon. The inverter is in commissioning mode (P0010 = 1).