

订货号 : 6SL3224-0XE42-0UA0  
Article No. :



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

Input

|                                                    |                     |
|----------------------------------------------------|---------------------|
| 相位数<br>Number of phases                            | 3 AC                |
| 电源电压<br>Line voltage                               | 380 ... 480 V ±10 % |
| 电源频率<br>Line frequency                             | 47 ... 63 Hz        |
| 带电源电抗器的额定电流<br>Rated current with line reactor     | 354.00 A            |
| 不带电源电抗器的额定电流<br>Rated current without line reactor | 442.00 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)                     | 250.00 kW400.00 hp  |
| 额定功率 (HO)<br>Rated power (HO)                     | 200.00 kW300.00 hp  |
| 额定电流 (LO)<br>Rated current (LO)                   | 477.00 A            |
| 额定电流 (HO)<br>Rated current (HO)                   | 370.00 A            |
| 最大输出电流<br>Max. output current                     | 592.00 A            |
| 脉冲频率<br>Pulse frequency                           | 2 kHz               |
| 矢量控制时的输出频率<br>Output frequency for vector control | 0 ... 200 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)  | 在一个 300 秒循环时间内 57 秒的 1.1 × 额定输出电流 (即 110%过载) , 在一个 300 秒循环时间内 3 秒的 1.5 × 额定输出电流 (即 150%过载)<br>1.1 x rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s1.5 x rated output current (i.e. 150 % overload) for 3 s with a cycle time of 300 s         |
| 高过载 (HO)<br>High Overload (HO) | 一个 300 秒的循环时间有 57 秒的 1.36 × 测定电流 (即 136 % 过载) , 在一个 300 秒的循环时间中有 3 秒的 1.6 × 测定电流 (即 160 % 过载)<br>1.36 x output current rating (i.e., 136 % overload) for 57 s with a cycle time of 300 s1.6 x output current rating (i.e., 160 % overload) for 3 s with a cycle time of 300 s |

通用技术参数  
General tech. specifications

|                                          |         |
|------------------------------------------|---------|
| 功率系数 λ<br>Power factor λ                 | 0.85    |
| 偏移角 cos φ<br>Offset factor cos φ         | 0.95    |
| 效率 η<br>Efficiency η                     | 0.98    |
| 声压级 LpA(1m)<br>Sound pressure level (1m) | 69 dB   |
| 损耗功率<br>Power loss                       | 5.50 kW |
| 滤波器等级 (集成式)<br>Filter class (integrated) | -       |

## SINAMICS 数据表 功率模块 PM240

Data sheet for SINAMICS Power module PM240

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| 环境条件<br>Ambient conditions        |                                                      |
|-----------------------------------|------------------------------------------------------|
| 冷却<br>Cooling                     | 内部风冷<br>Internal air cooling                         |
| 冷却空气需求<br>Cooling air requirement | 0.360 m³/s (12.713 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 LO<br>Operation LO             | 0 ... 40 °C (32 ... 104 °F)                          |
| 运行 HO<br>Operation HO             | 0 ... 40 °C (32 ... 104 °F)                          |
| 运输<br>Transport                   | -25 ... 55 °C (-13 ... 131 °F)                       |
| 存放温度<br>Storage                   | -25 ... 55 °C (-13 ... 131 °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 |

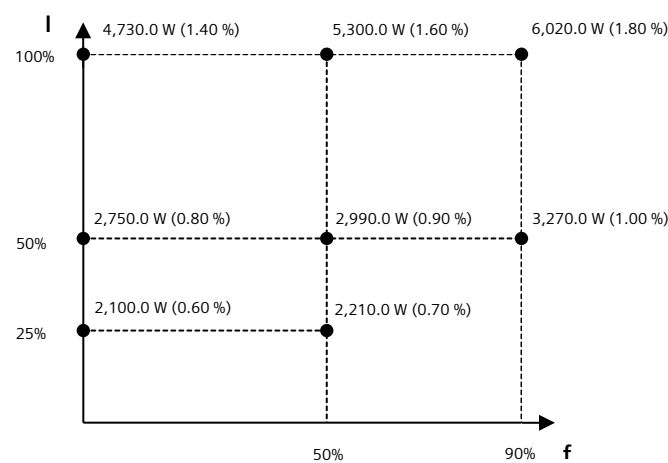
| 接口<br>Connections                   |                                               |
|-------------------------------------|-----------------------------------------------|
| 电源侧<br>Line side                    |                                               |
| 规格<br>Version                       | M10 螺杆<br>M10 bolt                            |
| 接口横截面<br>Conductor cross-section    | 185.00 ... 240.00 mm²<br>(AWG -5 ... MCM 500) |
| 电机侧<br>Motor end                    |                                               |
| 规格<br>Version                       | M10 螺杆<br>M10 bolt                            |
| 接口横截面<br>Conductor cross-section    | 185.00 ... 240.00 mm²<br>(AWG -5 ... MCM 500) |
| 最大电机电缆长度<br>Max. motor cable length |                                               |
| 屏蔽<br>Shielded                      | 200 米 (656.17 ft)                             |
| 非屏蔽<br>Unshielded                   | 300 米 (984.25 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                | FSGX                                                                       |
| 净重<br>Net weight                  | 174.00 kg (383.60 lb)                                                      |
| 外形尺寸<br>Dimensions                |                                                                            |
| 宽度<br>Width                       | 326 mm (12.83 in)                                                          |
| 高度<br>Height                      | 1,533 mm (60.35 in)                                                        |
| 深度<br>Depth                       | 547 mm (21.54 in)                                                          |
| 标准<br>Standards                   |                                                                            |
| 符合标准<br>Compliance with standards | UL, cUL, CE, C-Tick (RCM), SEMI F47<br>UL, cUL, CE, C-Tick (RCM), SEMI F47 |
| CE 标志<br>CE marking               | 低压准则 2006/95/EC<br>Low-voltage directive 2006/95/EC                        |

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|                                                                              |         |
|------------------------------------------------------------------------------|---------|
| 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%) |         |
|                                                                              | 44.50 % |



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