

SINAMICS 数据表 功率模块 PM250

Data sheet for SINAMICS Power module PM250

订货号: **6SL3225-0BE27-5AA1**
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 Input

相位数 Number of phases	3 AC
电源电压 Line voltage	380 ... 480 V ±10 %
电源频率 Line frequency	47 ... 63 Hz
额定电流 (LO) Rated current (LO)	25.00 A
额定电流 (HO) Rated current (HO)	19.00 A

输出 Output

相位数 Number of phases	3 AC	
额定电压 Rated voltage	400V IEC	480V NEC ¹⁾
额定功率 (LO) Rated power (LO)	11.00 kW	15.00 hp
额定功率 (HO) Rated power (HO)	7.50 kW	10.00 hp
额定电流 (LO) Rated current (LO)	25.00 A	
额定电流 (HO) Rated current (HO)	19.00 A	
最大输出电流 Max. output current	38.00 A	
脉冲频率 Pulse frequency	4 kHz	
矢量控制时的输出频率 Output frequency for vector control	0 ... 200 Hz	
V/f控制时的输出频率 Output frequency for V/f control	0 ... 550 Hz	

过载能力 Overload capability

低过载 (LO) 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) 1.1 x rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s 1.5 x rated output current (i.e. 150 % overload) for 3 s with a cycle time of 300 s
高过载 (HO) High Overload (HO)	一个 300 秒的循环时间有 57 秒的 1.5 × 额定输出电流 (即 150 % 过载), 在一个 300 秒的循环时间中有 3 秒的 2 × 额定输出电流 (即 200 % 过载) 1.5 x output current rating (i.e., 150 % overload) for 57 s with a cycle time of 300 s 2 x output current rating (i.e., 200 % 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 Power factor λ	0.90
偏移角 cos φ Offset factor cos φ	0.95
效率 η Efficiency η	0.95
声压级 LpA(1m) Sound pressure level (1m)	60 dB
损耗功率 Power loss	0.28 kW
滤波器等级 (集成式) Filter class (integrated)	A 级 Class A

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环境条件 Ambient conditions

冷却 Cooling	内部风冷 Internal air cooling
冷却空气需求 Cooling air requirement	0.038 m ³ /s (1.342 ft ³ /s)
安装高度 Installation altitude	1,000 米 (3,280.84 ft)
环境温度 Ambient temperature	
运行 LO Operation LO	0 ... 40 °C (32 ... 104 °F)
运行 HO Operation HO	0 ... 50 °C (32 ... 122 °F)
运输 Transport	-25 ... 55 °C (-13 ... 131 °F)
存放温度 Storage	-25 ... 55 °C (-13 ... 131 °F)
相对空气湿度 Relative humidity	
运行, 最大 Max. operation	95 % RH, 禁止凝露 95 % RH, condensation not permitted

接口 Connections

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	2.50 ... 10.00 mm ² (AWG 14 ... AWG 8)
电机侧 Motor end	
规格 Version	螺钉型端子 Screw-type terminals
接口横截面 Conductor cross-section	2.50 ... 10.00 mm ² (AWG 14 ... AWG 8)
最大电机电缆长度 Max. motor cable length	
屏蔽 Shielded	25 米 (82.02 ft)
非屏蔽 Unshielded	100 米 (328.08 ft)

机械数据 Mechanical data

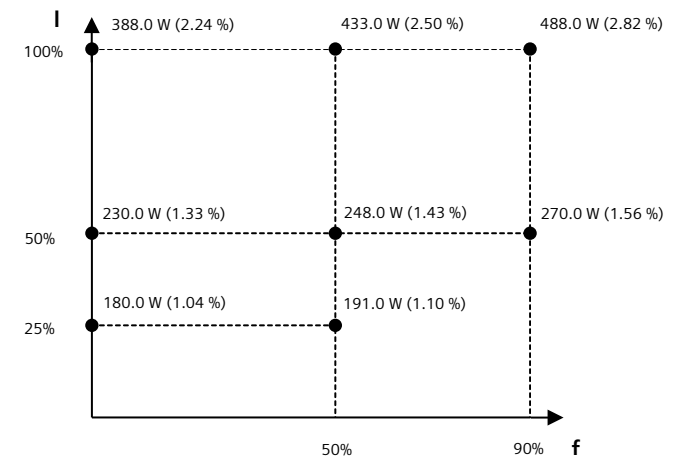
防护等级 Degree of protection	IP20 / UL 开放式 IP20 / UL open type
外形尺寸 Frame size	F5C
净重 Net weight	7.50 kg (16.53 lb)
外形尺寸 Dimensions	
宽度 Width	189 mm (7.44 in)
高度 Height	334 mm (13.15 in)
深度 Depth	185 mm (7.28 in)

标准 Standards

符合标准 Compliance with standards	UL, cUL, CE, C-Tick (RCM) UL, cUL, CE, C-Tick (RCM)
CE 标志 CE marking	低压准则 2006/95/EC Low-voltage directive 2006/95/EC

符合 IEC61800-9-2 的变频器损耗* Converter losses to IEC61800-9-2*

效率等级 Efficiency class	IE2
对比参考变频器 (90% / 100%) Comparison with the reference converter (90% / 100%)	48.07 % / 100%



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项/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
*converted values

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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