



图像类似 / Figure similar

订购数据

MLFB-Ordering data

6SL3210-1PE27-5AL0

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 \pm 10 %
电源频率 Line frequency	47 ... 63 Hz
额定电流 (LO) Rated current (LO)	70.00 A
额定电流 (HO) Rated current (HO)	62.00 A

输出 / Output

相位数 Number of phases	3 AC
额定电压 Rated voltage	400 V
额定电流 (LO) Rated current (LO)	75.00 A
额定电流 (HO) Rated current (HO)	60.00 A
最大输出电流 Max. output current	120.00 A
额定功率 IEC 400V (LO) Rated power IEC 400V (LO)	37.00 kW
额定功率 NEC 480V (LO) Rated power NEC 480V (LO)	50.00 hp
额定功率 IEC 400V (HO) Rated power IEC 400V (HO)	30.00 kW
额定功率 NEC 480V (HO) Rated power NEC 480V (HO)	40.00 hp
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 $1.1 \times$ 额定输出电流 (即 110 % 过载), 在一个 300 秒循环时间内 3 秒的 $1.5 \times$ 额定输出电流 (即 150 % 过载)
 $1.1 \times$ rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s $1.5 \times$ 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 $1.5 \times$ 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 $2 \times$ 额定输出电流 (即 200 % 过载)
 $1.5 \times$ output current rating (i.e., 150 % overload) for 57 s with a cycle time of 300 s $2 \times$ 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	0.95
偏移角 $\cos \varphi$ Offset factor $\cos \varphi$	0.99
效率 η Efficiency η	0.98
声压级 LpA(1m) Sound pressure level (1m)	72 dB
损耗功率 Power loss	1.02 kW

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	0.055 m ³ /s (1.942 ft ³ /s)
安装高度 Installation altitude	1000 米 (3280.84 ft)

环境温度 / Ambient temperature

运行 LO Operation LO	-20 ... 40 °C (-4 ... 104 °F)
运行 HO Operation HO	-20 ... 50 °C (-4 ... 122 °F)
运输 Transport	-40 ... 70 °C (-40 ... 158 °F)
轴承 Storage	-40 ... 70 °C (-40 ... 158 °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
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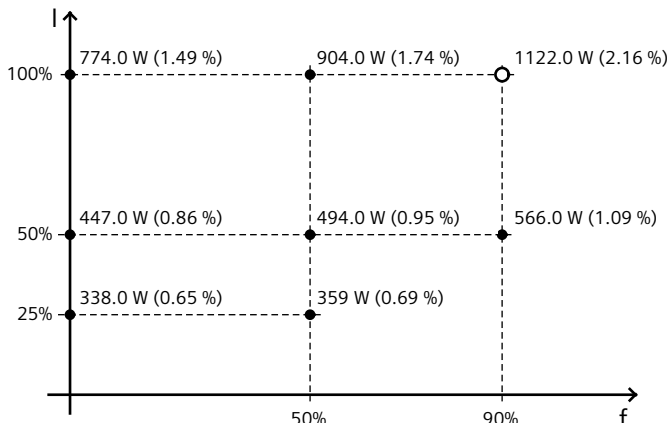
图像类似 / Figure similar

机械数据 / Mechanical data

防护等级 Degree of protection	IP20 IP20
结构尺寸 Size	FSD
净重 Net weight	18.50 kg (40.79 lb)
宽度 Width	200 mm (7.87 in)
高度 Height	472 mm (18.58 in)
深度 Depth	237 mm (9.33 in)

符合EN 50598-2的变频器损耗* / Converter losses to EN 50598-2*

效率等级 Efficiency class	IE2
对比参考变频器 (90% / 100%) Comparison with the reference converter (90% / 100%)	-54.91 %



百分比值给出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 EN 50598) 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 EN 50598) 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

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	10.00 ... 35.00 mm ² (AWG 8 ... AWG 2)

电机侧 / Motor end

规格 Version	螺钉型端子 Screw-type terminals
接口横截面 Conductor cross-section	10.00 ... 35.00 mm ² (AWG 8 ... AWG 2)

直流母线 (用于制动电阻) / DC link (for braking resistor)

规格 Version	螺钉型端子 Screw-type terminals
接口横截面 Conductor cross-section	2.50 ... 16.00 mm ² (AWG 14 ... AWG 6)
电缆长度 Cable length	10 米 (32.81 ft)
PE 端子 PE connection	螺钉型接线端子 Screw-type terminals

最大电机电缆长度 / Max. motor cable length

屏蔽 Shielded	200 米 (656.17 ft)
非屏蔽 Unshielded	300 米 (984.25 ft)

标准 / Standards

符合标准 Compliance with standards	UL, cUL, CE, C-Tick (RCM), SEMI F47 UL, cUL, CE, C-Tick (RCM), SEMI F47
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CE 标志 CE marking	低压准则 2006/95/EC Low-voltage directive 2006/95/EC
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