



图像类似 / Figure similar

订购数据

MLFB-Ordering data

6SL3220-1YH64-1CF0

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	500 ... 690 V +10 % -10 %	
电源频率 Line frequency	47 ... 63 Hz	
额定电压 Rated voltage	690V IEC	600V NEC
额定电流 (LO) Rated current (LO)	596.00 A	591.00 A
额定电流 (HO) Rated current (HO)	461.00 A	501.00 A

输出 / Output

相位数 Number of phases	3 AC	
额定电压 Rated voltage	690V IEC	600V NEC
额定功率 (LO) Rated power (LO)	500.00 kW	500.00 hp
额定功率 (HO) Rated power (HO)	450.00 kW	500.00 hp
额定电流 (LO) Rated current (LO)	520.00 A	546.00 A
额定电流 (HO) Rated current (HO)	470.00 A	482.00 A
额定电流 (IN) Rated current (IN)	581.00 A	
最大输出电流 Max. output current	768.00 A	
脉冲频率 Pulse frequency	2 kHz	
矢量控制时的输出频率 Output frequency for vector control	0 ... 100 Hz	
V/f控制时的输出频率 Output frequency for V/f control	0 ... 100 Hz	

过载能力 / Overload capability

低过载 (LO) Low Overload (LO)

周期时间 300 s 中, 110% 基本负载电流 IL, 持续时间 60 s
110% base load current IL for 60 s in a 300 s cycle time

高过载 (HO) High Overload (HO)

周期时间 600 s 中, 150% 基本负载电流 IL, 持续时间 60 s
150% x base load current IH for 60 s within a 600 s cycle time

通用技术参数 / General tech. specifications

功率系数 λ Power factor λ	0.75 ... 0.93
偏移角 cos φ Offset factor cos φ	0.96
效率 η Efficiency η	0.98
声压级 LpA(1m) Sound pressure level (1m)	74 dB
损耗功率 Power loss	8.134 kW
滤波器等级 (集成式) Filter class (integrated)	C3 类电磁干扰滤波器 RFI suppression filter for Category C3
EMC 类别 (含附件) EMC category (with accessories)	C3 类 Category C3

环境条件 / Ambient conditions

喷漆标准 Standard board coating type	IEC 60721-3-3: 2002 规定的 3C2 级 Class 3C2, according to IEC 60721-3-3: 2002
冷却 Cooling	通过集成的风扇进行空气冷却 Air cooling using an integrated fan
冷却空气需求 Cooling air requirement	0.450 m³/s (15.892 ft³/s)
安装高度 Installation altitude	1000 米 (3280.84 ft)
环境温度 / Ambient temperature	
运行 Operation	0 ... 45 °C (32 ... 113 °F)
运输 Transport	-40 ... 70 °C (-40 ... 158 °F)
轴承 Storage	-25 ... 55 °C (-13 ... 131 °F)

相对空气湿度 / Relative humidity

运行, 最大 Max. operation	95 % 40 °C (104 °F) 时, 禁止发生凝露和结冰 95 % At 40 °C (104 °F), condensation and icing not permissible
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图像类似 / Figure similar

机械数据 / Mechanical data

防护等级 Degree of protection	IP20 / UL 开放式 IP20 / UL open type
结构尺寸 Size	FSJ
净重 Net weight	236 kg (520.29 lb)
宽度 Width	801 mm (31.54 in)
高度 Height	1621 mm (63.82 in)
深度 Depth	393 mm (15.47 in)

输入/输出 / Inputs / outputs

数字量输入 - 标准 / Standard digital inputs

数量 Number	6
开关电平: 0 → 1 Switching level: 0 → 1	11 V
开关电平: 1 → 0 Switching level: 1 → 0	5 V
最大接通电流 Max. inrush current	15 mA

故障安全数字量输入 / Fail-safe digital inputs

数量 Number	1
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数字量输出 / Digital outputs

作为继电器转换器的数量 Number as relay changeover contact	2
输出 (欧姆负载) Output (resistive load)	DC 30 V, 5.0 A
作为晶体管的数量 Number as transistor	0

模拟量/数字量输入 / Analog / digital inputs

数量 Number	2 (压差输入端) 2 (Differential input)
分辨率 Resolution	10 位

作为数字量输入的接通阈值 / Switching threshold as digital input

0 → 1	4 V
1 → 0	1.6 V

模拟量输出 / Analog outputs

数量 Number	1 (电位相关输出端) 1 (Non-isolated output)
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PTC/ KTY接口 / PTC/ KTY interface

1 个电机温度传感器输入端，可连接的 PTC 传感器，KTY 和 Thermo-Click，准确度在 ±5 °C 内
1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy ±5 °C

闭环控制方式 / Closed-loop control techniques

V/f 线性/平方/可参数设置 V/f linear / square-law / parameterizable	是 Yes
V/f, 带磁通电流控制 (FCC) V/f with flux current control (FCC)	是 Yes
V/f ECO 线性/平方 V/f ECO linear / square-law	是 Yes
矢量控制, 无编码器 Sensorless vector control	是 Yes
矢量控制, 带编码器 Vector control, with sensor	否 No
转矩控制, 无编码器 Encoderless torque control	是 Yes
转矩控制, 带编码器 Torque control, with encoder	否 No

通讯 / Communication

通讯 Communication	PROFINET, 以太网 / IP PROFINET, EtherNet/IP
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接口 / Connections

信号电缆 / Signal cable

接口横截面 Conductor cross-section	0.15 ... 1.50 mm ² (AWG 24 ... AWG 16)
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电源侧 / Line side

规格 Version	M12 螺栓 M12 screw
接口横截面 Conductor cross-section	240.00 mm ² (MCM 4 x 500 ... MCM 6 x 500)

电机侧 / Motor end

规格 Version	M12 螺栓 M12 screw
接口横截面 Conductor cross-section	240.00 mm ² (MCM 4 x 500 ... MCM 8 x 500)

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

PE 端子 PE connection	M12 螺栓 M12 screw
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最大电机电缆长度 / Max. motor cable length

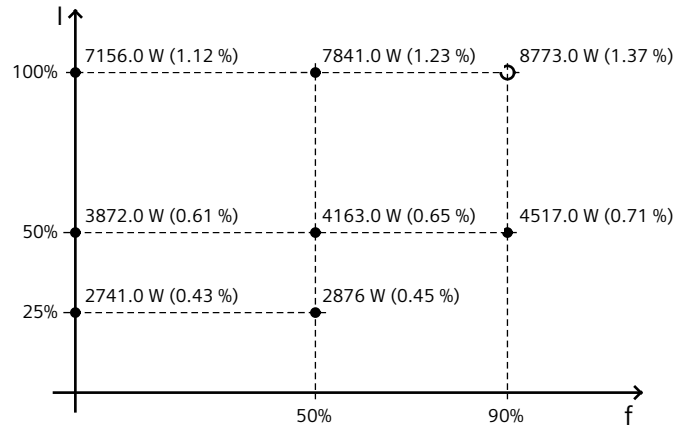
屏蔽 Shielded	150 米 (492.13 ft)
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图像类似 / Figure similar

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%)	-33.90 %



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EN 50598) 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 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

标准 / Standards

符合标准
Compliance with standards

UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH
UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH

CE 标志
CE marking

EMV 准则 2004 / 108/EG, 低压准则 2006/95/EG
EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC

I/O 扩展模块 / I/O Extension Module

可通过直接输入“MLFB 6SL3255-0BE00-0AA0”来获取 I/O 扩展模块的技术数据。
Technical specifications for the I/O Extension Modul are available via direct input (MLFB 6SL3255-0BE00-0AA0).