

## **MLFB-Ordering data**

6SL3210-1KE22-6UB1



Figure similar

Client order no. : Order no. : Offer no. : Remarks :

ltem no. :
Consignment no. :
Project :

Rated data		General tech. specifications	
nput		Power factor λ	0.70 0.85
Number of phases	3 AC	Offset factor cos φ	0.95
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97
Line frequency	47 63 Hz	Sound pressure level (1m)	66 dB
Rated current (LO)	33.00 A	Power loss	0.35 kW
Rated current (HO)	24.10 A	Filter class (integrated)	Unfiltered
Output		Ambian	t conditions
Number of phases	3 AC	Ambien	
Rated voltage	400 V	Cooling	Air cooling using an integrated fan
Rated power IEC 400V (LO)	11.00 kW		
Rated power NEC 480V (LO)	15.00 hp	Cooling air requirement	0.018 m³/s (0.636 ft³/s)
Rated power IEC 400V (HO)	7.50 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (HO)	10.00 hp	Ambient temperature	
Rated current (IN)	26.00 A	Operation	-10 40 °C (14 104 °F)
Rated current (LO)	25.00 A	Transport	-40 70 °C (-40 158 °F)
Rated current (HO)	16.50 A	Storage	-40 70 °C (-40 158 °F)
Max. output current	33.00 A	Relative humidity	
Pulse frequency	4 kHz	Max. operation	95 % At 40 °C (104 °F), condensatior and icing not permissible
Output frequency for vector control	0 240 Hz		
		Closed-loop control techniques	
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parameterizable Yes	
		V/f with flux current control (FC	C) Yes
Overload capability		V/f ECO linear / square-law	Yes
Low Overload (LO)		Sensorless vector control	Yes
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Vector control, with sensor	No
		Encoderless torque control	No

High Overload (HO)

200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time

Encoderless torque control

Torque control, with encoder

No

No



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Mechanical data		Communication	
Degree of protection	IP20 / UL open type	Communication	USS/MODBUS RTU
Size	FSC	Connections	
Net weight	4.40 kg (9.70 lb)	Signal cable	
Width	140 mm (5.51 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
Height	295 mm (11.61 in)	Line side	
Depth	203 mm (7.99 in)	Version	Plug-in screw terminals
Inputs / outputs		Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)
Standard digital inputs		Motor end	
Number	6	Version	Plug-in screw terminals
Switching level: 0→1	11 V	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)
Switching level: 1→0	5 V	DC link (for braking resistor)	1
Max. inrush current	15 mA	Version	Plug-in screw terminals
Fail-safe digital inputs		Conductor cross-section	6.00 16.00 mm <sup>2</sup> (AWG 10 AWG 6)
Number	1	Line length, max.	15 m (49.21 ft)
Digital outputs		PE connection	On housing with M4 screw
Number as relay changeover contact	1	Max. motor cable length	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)
Number as transistor	1	Unshielded	150 m (492.13 ft)
Output (resistive load)	DC 30 V, 0.5 A	St	tandards
Analog / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick (RCM)
Number	1 (Differential input)		
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC
Switching threshold as digital in	out		
0→1	4 V		
1→0	1.6 V		
Analog outputs			
Number	1 (Non-isolated output)		
PTC/ KTY interface			

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy  $\pm 5~^\circ\mathrm{C}$ 



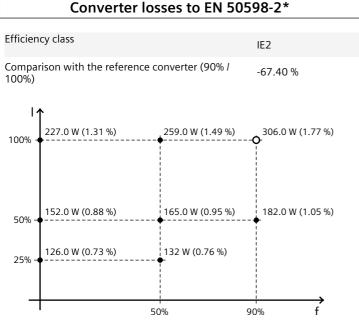


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The percentage values show the losses in relation to the rated apparent power of the converter.

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.

\*converted values

