

## **MLFB-Ordering data**

6SL3210-1KE17-5UF1



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General teo	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)	52 dB	
Rated current (LO)	9.50 A	Power loss	0.14 kW	
Rated current (HO)	8.20 A	Filter class (integrated)	Unfiltered	
Dutput		- <b>A</b>	at an ditions	
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air cooling using an integrated fan	
Rated power IEC 400V (LO)	3.00 kW			
Rated power NEC 480V (LO)	4.00 hp	Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Rated power IEC 400V (HO)	2.20 kW	Installation altitude	1000 m (3280.84 ft)	
Rated power NEC 480V (HO)	3.00 hp	Ambient temperature		
Rated current (IN)	7.50 A	Operation	-10 40 °C (14 104 °F)	
Rated current (LO)	7.30 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (HO)	5.60 A	Storage	-40 70 °C (-40 158 °F)	
		Relative humidity		
Max. output current	11.20 A	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
Pulse frequency	4 kHz			
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 / parame	<b>eterizable</b> Yes	

### **Overload capability**

Low Overload (LO)

150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time

#### 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

closed-loop control techniques				
V/f linear / square-law / parameterizable	Yes			
V/f with flux current control (FCC)	Yes			
V/f ECO linear / square-law	Yes			
Sensorless vector control	Yes			
Vector control, with sensor	No			
Encoderless torque control	No			
Torque control, with encoder	No			





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Figure similar

Mechanical data		Figure similar Communication		
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP	
Size	FSA	Connections		
Net weight	1.70 kg (3.75 lb)	Signal cable		
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Height	196 mm (7.72 in)	Line side		
Depth	208 mm (8.19 in)	Version	Plug-in screw terminals	
Inputs / out	tputs	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)	
Standard digital inputs		_ Motor end		
Number	6	Version	Plug-in screw terminals	
Switching level: 0→1	11 V	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)	
Switching level: 1→0	5 V	DC link (for braking resistor)	)	
Max. inrush current	15 mA	Version	Plug-in screw terminals	
Fail-safe digital inputs		Conductor cross-section	1.00 2.50 mm <sup>2</sup> (AWG 18 AWG 14)	
Number	1			
Digital outputs		Line length, max.	15 m (49.21 ft)	
Number as relay changeover contact	1	PE connection Max. motor cable length	On housing with M4 screw	
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	S	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	put			
0→1	4 V			
1→0	1.6 V			
Analog outputs				
Number	1 (Non-isolated output)			
DTC/VTV interface				

# PTC/ KTY interface

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





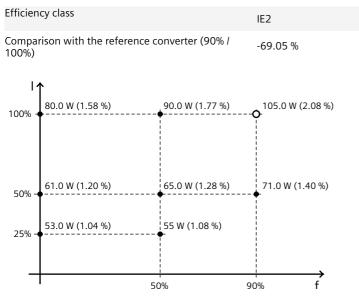
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Figure similar

# Converter losses to EN 50598-2\*



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

