

## **MLFB-Ordering data**

6SL3210-1KE21-7UP1



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated da	General tech. specifications			
nput		Power factor λ	0.7	0 0.85
Number of phases	3 AC	Offset factor cos φ	0.9	5
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	7
Line frequency	47 63 Hz	Sound pressure level (1m)	63	dB
Rated current (LO)	21.50 A	Power loss	0.2	4 kW
Rated current (HO)	18.20 A	Filter class (integrated)	Un	filtered
Dutput		-		
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air coolin	g using an integrated fan
Rated power IEC 400V (LO)	7.50 kW			
Rated power NEC 480V (LO)	10.00 hp	Cooling air requirement		s (0.318 ft³/s)
Rated power IEC 400V (HO)	5.50 kW	Installation altitude	1000 m (3	3280.84 ft)
Rated power NEC 480V (HO)	7.50 hp	Ambient temperature		
Rated current (IN)	17.00 A	Operation	-10 40	°C (14 104 °F)
Rated current (LO)	16.50 A	Transport	-40 70	°C (-40 158 °F)
Rated current (HO)	12.50 A	Storage	-40 70	°C (-40 158 °F)
Max. output current	25.00 A	Relative humidity		
Pulse frequency	4 kHz	95 % At 40 °C (104 °F Max. operation and icing not permiss		0 °C (104 °F), condensati not permissible
			and lening not permissible	
Output frequency for vector control	0 240 Hz	Closed-loop control techniques		nniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parameterizable Yes		Yes
		V/f with flux current control (F	CC)	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 Overland (HO)				

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

Torque control, with encoder

No



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Figure similar

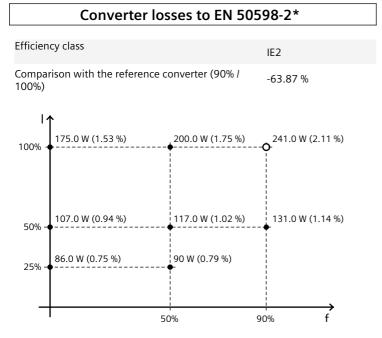
Mechanical data		Figure simila		
Degree of protection	IP20 / UL open type	Communication PROFIBUS DP		
Size	FSB	Connections		
Net weight	2.30 kg (5.07 lb)	Signal cable		
Width	100 mm (3.94 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Height	196 mm (7.72 in)	Line side		
Depth	203 mm (7.99 in)	Version	Plug-in screw terminals	
Inputs / outputs		Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10)	
Standard digital inputs		Motor end		
Number	6	Version	Plug-in screw terminals	
Switching level: 0→1	11 V	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10	
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	4.00 6.00 mm <sup>2</sup> (AWG 12 AWG 10)	
Number	1	Line length, max.	15 m (49.21 ft)	
Digital outputs		PE connection		
Number as relay changeover contact	1	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	Standards		
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-Volta 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)			
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



Figure similar