

## **MLFB-Ordering data**

6SL3210-1KE31-1UF1



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
Input		Power factor λ	0.9	0 0.95
Number of phases	3 AC	Offset factor cos φ	0.9	9
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	8
Line frequency	47 63 Hz	Sound pressure level (1m)	71	dB
Rated current (LO)	96.00 A	Power loss	1.5	4 kW
Rated current (HO)	85.00 A	Filter class (integrated)	Unf	iltered
Output		Ambian	t condition	
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air cooling	g using an integrated fan
Rated power IEC 400V (LO)	55.00 kW	Cooling air requirement	0.082 m³/	s (2.931 ft³/s)
Rated power NEC 480V (LO)	60.00 hp	Installation altitude		
Rated power IEC 400V (HO)	45.00 kW		1000 m (3	3280.84 ft)
Rated power NEC 480V (HO)	50.00 hp	Ambient temperature	20 404	
Rated current (LO)	103.00 A	Operation		°C (-4 104 °F)
Rated current (HO)	83.00 A	Transport		°C (-40 158 °F)
Rated current (IN)	103.00 A	Storage	-40 70 °	°C (-40 158 °F)
Max. output current	165.00 A	Relative humidity		
Pulse frequency	4 kHz	Max. operation	95 % RH, d	condensation not permitted
Output frequency for vector control	0 240 Hz			
		Closed-loop c	ontrol tech	nniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramet	erizable	Yes
		V/f with flux current control (FC	<b>_</b> )	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		Vector control, with sensor		No
300 s cycle time		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		Torque control, with encoder		No

300 s cycle time



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Figure similar

Mechanical data		Com	Figure simil		
Degree of protection         IP20 / UL open type					
	FSE	Communication	PROFINET, EtherNet/IP		
Size		Co	nnections		
Net weight	26.50 kg (58.42 lb)	Signal cable			
Width	275 mm (10.83 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)		
Height	551 mm (21.69 in)	Line side			
Depth	237 mm (9.33 in)	Version	screw-type terminal		
Inputs / outputs		Conductor cross-section	25.00 70.00 mm² (AWG 4 AWG -1		
tandard digital inputs		Motor end			
Number	6	Version	Screw-type terminals		
Switching level: 0→1	11 V	Conductor cross-section	25.00 70.00 mm² (AWG 4 AWG -1		
Switching level: 1→0	5 V	DC link (for braking resistor)	)		
Max. inrush current	15 mA	Version	Screw-type terminals		
ail-safe digital inputs		Conductor cross-section	25.00 70.00 mm² (AWG 4 AWG -1		
Number	1	Line length, max.	10 m (32.81 ft)		
Digital outputs		PE connection	Screw-type terminals		
Number as relay changeover contact	1	Max. motor cable length	Selew type terminuts		
Output (resistive load)	DC 30 V, 0.5 A	Shielded	200 m (656.17 ft)		
Number as transistor	1	Unshielded	300 m (984.25 ft)		
Output (resistive load)	DC 30 V, 0.5 A	Standards			
nalog / 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		
witching threshold as digital inp	but				
0→1	4 V				
1→0	1.6 V				
nalog outputs					
Number	1 (Non-isolated output)				
TC/ KTY interface					
1 motor temperature sensor input, sensor	re that can be connected. DTC KTV				

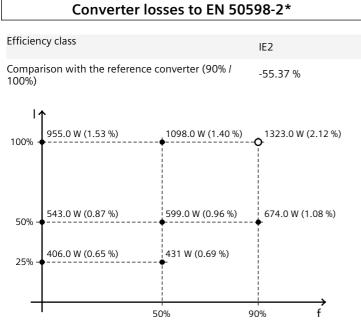
1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy  $\pm 5~^\circ\mathrm{C}$ 



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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