

# **MLFB-Ordering data**

6SL3210-1KE12-3AP2



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
		Power factor λ	0.70 0.85	
Number of phases	3 AC	Offset factor cos φ	0.9	95
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	17
Line frequency	47 63 Hz	Sound pressure level (1m)	49	dB
Rated current (LO)	2.90 A	Power loss	0.0	04 kW
Rated current (HO)	2.50 A	Filter class (integrated)	Cla	ss A
Dutput		Ambie	nt conditio	ns
Number of phases	3 AC			
Rated voltage	400 V	Cooling	Air coolin	g using an integrated fan
Rated power IEC 400V (LO)	0.75 kW	Cooling air requirement	0.00E m3	/s (0.177 ft³/s)
Rated power NEC 480V (LO)	1.00 hp	Installation altitude		3280.84 ft)
Rated power IEC 400V (HO)	0.55 kW		1000 III (.	5260.64 1()
Rated power NEC 480V (HO)	0.75 hp	Ambient temperature		
Rated current (LO)	2.20 A	Operation		°C (14 104 °F)
Rated current (HO)	1.70 A	Transport		°C (-40 158 °F)
Rated current (IN)	2.30 A	Storage	-40 70	°C (-40 158 °F)
Max. output current	3.40 A	Relative humidity		
Pulse frequency	4 kHz	95 % At 40 °C (104 °F), conder Max. operation and icing not permissible		
Output frequency for vector control	0 240 Hz			
		Closed-loop	control tec	hniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parame	eterizable	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 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 sir	
Mechanical data		Con	Communication	
Degree of protection	IP20 / UL open type	Communication PROFIBUS DP		
Size	FSAA	Connections		
Net weight	1.40 kg (3.09 lb)	Signal cable		
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16	
Height	173 mm (6.81 in)	Line side		
Depth	155 mm (6.10 in)	Version	Plug-in screw terminals	
Inputs / outputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14	
tandard 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	
ail-safe digital inputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14	
Number	1	Line length, max.	15 m (49.21 ft)	
igital outputs				
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	100 m (328.08 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 in	put			
0→1	4 V			

Number

1→0

1 (Non-isolated output)

1.6 V

### PTC/ KTY interface

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



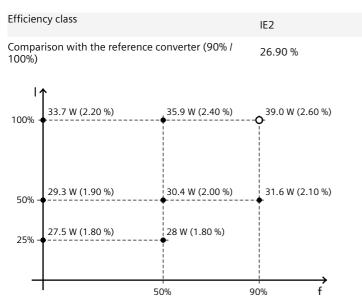
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Figure similar

Converter losses to IEC61800-9-2\*



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 IEC61800-9-2) 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