

MLFB-Ordering data

6SL3210-1KE21-3AP1



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data		General tech. specifications			
nput		Power factor λ	0.7	<i>'</i> 0 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)	63	dB	
Rated current (LO)	16.50 A	Power loss	0.1	8 kW	
Rated current (HO)	12.80 A	Filter class (integrated)	Cla	ss A	
Dutput		- Anahian			
Number of phases	3 AC	Ambient conditions			
Rated voltage	400 V	Cooling	Air coolin	g using an integrated fan	
Rated power IEC 400V (LO)	5.50 kW		0.000		
Rated power NEC 480V (LO)	7.50 hp	Cooling air requirement		/s (0.318 ft³/s)	
Rated power IEC 400V (HO)	4.00 kW	Installation altitude	1000 m (3280.84 ft)	
Rated power NEC 480V (HO)	5.00 hp	Ambient temperature			
Rated current (LO)	12.50 A	Operation	-10 40	°C (14 104 °F)	
Rated current (HO)	8.80 A	Transport	-40 70	°C (-40 158 °F)	
Rated current (IN)	13.00 A	Storage	-40 70	°C (-40 158 °F)	
Max. output current	17.60 A	Relative humidity			
Pulse frequency	4 kHz	Max. operation	95 % At 40 °C (104 °F), conde Max. operation and icing not permissible		
	0 240.0		y		
Output frequency for vector control	0 240 Hz	Closed-loop o	Closed-loop control techniques		
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parame		Yes	
		V/f with flux current control (FC	CC)	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

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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Mechanical data		Com	Communication	
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)	
itandard 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))	
Max. inrush current	15 mA	Version	Plug-in screw terminals	
Fail-safe digital inputs		Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10)	
Number	1	Line length, max.	15 m (49.21 ft)	
Digital 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	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-Voltag 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 $\pm 5~^\circ\mathrm{C}$



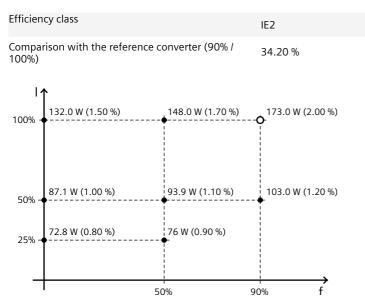
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Figure similar

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