

## **MLFB-Ordering data**

6SL3210-1KE21-3AP1



Figure similar

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

Item no. :	
Consignment no. :	
Project :	

Rated data		h. specifications	
	Power factor λ	0.70 0.85	
3.000AC	Offset factor $\cos \phi$	0.95	
380 480 V +10 % -20 %	Efficiency η	0.97	
47 63 Hz	Sound pressure level (1m)	63.000 dB	
16.50 A	Power loss	0.18 kW	
13.00 A	Ambient conditions		
	Cooling	Air cooling using an integrated for	
3.000AC	Cooling	Air cooling using an integrated fan	
400 V	Cooling air requirement	0.009 m³/s	
5.50 kW	Installation altitude	1000.000 m	
4.00 kW	Ambient temperature		
13.00 A	Operation	-10 40 °C (14 104 °F)	
12.50 A	Transport	-40 70 °C (-40 158 °F)	
8.80 A	Storage	-40 70 °C (-40 158 °F)	
17.60 A	Relative humidity		
4 kHz	M	95 % At 40 °C (104 °F), condensation	
0 240 Hz	Max. operation	and icing not permissible	
0 550 Hz	Closed-loop control techniques		
	V/f linear / square-law / parame	terizable Yes	
	V/f with flux current control (FC	CC) Yes	
	V/f ECO linear / square-law	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		Yes	
		No	
		No	
	Torque control, with encoder	No	
200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time		nunication	
	<ul> <li>380 480 V +10 % -20 %</li> <li>47 63 Hz</li> <li>16.50 A</li> <li>13.00 A</li> <li>3.000AC</li> <li>400 V</li> <li>5.50 kW</li> <li>5.50 kW</li> <li>13.00 A</li> <li>13.00 A<td>3.000AC       Offset factor cos φ         380 480 V +10 % -20 %       Efficiency η         47 63 Hz       Sound pressure level (1m)         16.50 A       Power loss         13.00 A       Ambien         3.000AC       Cooling air requirement         400 V       Cooling air requirement         5.50 kW       Installation altitude         4.00 kW       Ambient temperature         13.00 A       Operation         12.50 A       Storage         17.60 A       Relative humidity         4 kHz       Max. operation         0 240 Hz       Closed-loop of Vif with flux current control (FO)         V/f with flux current control (FO)       V/f with flux current control (FO)         10 % base load current lL for 57 s in a       Sensorless vector control</td></li></ul>	3.000AC       Offset factor cos φ         380 480 V +10 % -20 %       Efficiency η         47 63 Hz       Sound pressure level (1m)         16.50 A       Power loss         13.00 A       Ambien         3.000AC       Cooling air requirement         400 V       Cooling air requirement         5.50 kW       Installation altitude         4.00 kW       Ambient temperature         13.00 A       Operation         12.50 A       Storage         17.60 A       Relative humidity         4 kHz       Max. operation         0 240 Hz       Closed-loop of Vif with flux current control (FO)         V/f with flux current control (FO)       V/f with flux current control (FO)         10 % base load current lL for 57 s in a       Sensorless vector control	

Communication

?PMD\_ABY317\_001\_000 ?



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Figure similar

Mechanical data		Con	nections	
Degree of protection	IP20 / UL open type	Signal cable		
Size	FSB	Conductor cross-section	0.15 1.50 mm² (28 16 AWG)	
Net weight	2.30 kg	Line side		
Width	100.0 mm	Version	?PMD_ACA663_001_000 ?	
Height	196.0 mm	Conductor cross-section	4.00 6.00 mm² (12 10 AWG)	
Depth	203.0 mm	Motor end		
Inputs	/ outputs	Version	Plug-in screw terminals	
Standard digital inputs		Conductor cross-section	4.00 6.00 mm² (12 10 AWG)	
Number	6	DC link (for braking resistor)		
Switching level: 0→1	11 V	Version	Plug-in screw terminals	
Switching level: 1→0	5 V	Conductor cross-section	4.00 6.00 mm² (12 10 AWG)	
Max. inrush current	15 mA	PE connection	On housing with M4 screw	
Fail-safe digital inputs		Max. motor cable length		
Number	1	Shielded	50 m	
Digital outputs		Unshielded	100 m	
Number as relay changeover cor	ntact 1	Converter losses to EN 50598-2*		
Output (resistive load)	DC 30 V, 1 A	Efficiency class	150	
Number as transistor	1	Comparison with the reference cor	IE2 Iverter (90% / -65.39 %	
Output (resistive load)	DC 30 V, 1 A	100%)	% 62.20	
Analog / digital inputs		I <b>↑</b>		
Number	1 (Differential input)	132.0 W (1.52 %) 1	51.0 W (1.74 %) 	
Analog outputs				
Number	1 (Non-isolated output)	87.0 W (1.01 %) 9	14.0 W (1.09 %) 105.0 W (1.21 %)	
PTC/ KTY interface		50%	∙ 6 W (0.88 %)	
1 motor temperature sensor input, and Thermo-Click, accuracy ±5 °C	, sensors that can be connected: PTC, KTY	25% •		
Sta	ndards	50%	90% f	
	L, cUL, CE, C-Tick (RCM)	The percentage values show the losses in relation to the rated apparent power of the converter.		
CE marking El	MC Directive 2004/108/EC, Low-Voltage irective 2006/95/EC		s per standard EN 50598) of the relative torque tator frequency(f). The values are valid for the basic onents.	

\*calculated values; increased by 10% according to the standard