

MLFB-Ordering data

6SL3210-1KE17-5AP1



Figure similar

Client order no. :
Order no. :
Offer no. :
Pomarke :

Item no. :
Consignment no. :
Project :

Rated da	Rated data		ch. specifications	
nput		Power factor λ	0.70 0.85	
Number of phases	3 AC	Offset factor cos φ	0.95	
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97	
Line frequency	47 63 Hz	Sound pressure level (1m)	52 dB	
Rated current (LO)	9.50 A	Power loss	0.14 kW	
Rated current (HO)	8.20 A	Ambier	nt conditions	
Output		Allible		
Number of phases	3 AC	Cooling	Air cooling using an integrated fa	
Rated voltage	400 V			
Rated power IEC 400V (LO)	3.00 kW	Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Rated power NEC 480V (LO)	4.00 hp	Installation altitude	1000 m (3280.84 ft)	
Rated power IEC 400V (HO)	2.20 kW	Ambient temperature		
Rated power NEC 480V (HO)	3.00 hp	Operation	-10 40 °C (14 104 °F)	
Rated current (IN)	7.50 A	Transport	-40 70 °C (-40 158 °F)	
		Storage	-40 70 °C (-40 158 °F)	
Rated current (LO)	7.30 A	Relative humidity		
Rated current (HO)	5.60 A			
Max. output current	11.20 A	Max. operation	95 % At 40 °C (104 °F), condensa and icing not permissible	
Pulse frequency	4.000 kHz			
Output frequency for vector control	0 240 Hz	Closed-loop o	control techniques	
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parame	terizable Yes	
Surpar frequency for V/I control	υ σου πε	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

Communication

V/f ECO linear / square-law

Sensorless vector control

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

PROFIBUS DP

Communication

Yes

Yes

No

No

No



MLFB-Ordering data

6SL3210-1KE17-5AP1



Figure similar

Mechanical data		Figure simil		
Degree of protection	IP20 / UL open type	Signal cable		
Size	FSA	Conductor cross-section	C	
Net weight	1.70 kg (3.75 lb)	Line side		
Width	73 mm (2.87 in)	Version		
Height	196 mm (7.72 in)	Conductor cross-section		
Depth	203 mm (7.99 in)	Motor end		
Inputs / out	puts	Version		
Standard digital inputs		Conductor cross-section		
Number	6	DC link (for braking resistor)	
Switching level: 0→1	11 V	Version		
Switching level: 1→0	5 V	Conductor cross-section		
Max. inrush current	15 mA	Line length, max.		
Fail-safe digital inputs		PE connection		
Number	1	Max. motor cable length		
Digital outputs		Shielded		
Number as relay changeover contact	1	Unshielded		
Output (resistive load)	DC 30 V, 0.5 A	S	ita	
Number as transistor	1	Compliance with standards		
Output (resistive load)	DC 30 V, 0.5 A			
Analog / digital inputs		CE marking		
Number	1 (Differential input)			
Resolution	10 bit			
Switching threshold as digital inp	out			
0→1	4 V			
1→0	1.6 V			
Analog outputs				
Number	1 (Non-isolated output)			
PTC/ KTY interface				
1 motor temperature sensor input, sensor and Thermo-Click, accuracy ±5 °C	s that can be connected: PTC, KTY			



MLFB-Ordering data

6SL3210-1KE17-5AP1



Figure similar

Converter losses to EN 50598-2*

Efficiency class IE2 Comparison with the reference converter (90% / -68.30 % 100%) -**O**-^{108.0 W (2.13 %)} 80.0 W (1.58 %) 91.0 W (1.79 %) 100% 61.0 W (1.20 %) 65.0 W (1.29 %) 72.0 W (1.42 %) 50% 53.0 W (1.04 %) 55 W (1.08 %) 25% f 50% 90%

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