

Ordering data

6SL3210-1KE21-3AF1



Figure similar

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

Item no. : Consignment no. : Project :

Rated data		General tech. specifications			
Input		Power factor λ	0.7	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	97	
Line frequency	47 63 Hz	Sound pressure level (1m)	63	dB	
Rated current (LO)	16.50 A	Power loss	0.1	18 kW	
Rated current (HO)	13.00 A	Ambient conditions			
Output		Cooling	Air coolin	a using an integrated fan	
Number of phases	3 AC	Cooling	Air cooling using an integrated fan		
Rated voltage	400 V	Cooling air requirement	0.009 m³	/s	
Rated power (LO)	5.50 kW	Installation altitude	1000 m		
Rated power (HO)	4.00 kW	Ambient temperature			
Rated current (IN)	13.00 A	Operation	-10 40	°C (14 104 °F)	
Rated current (LO)	12.50 A	Transport	-40 70 °C (-40 158 °F)		
Rated current (HO)	8.80 A	Storage	-40 70	°C (-40 158 °F)	
Max. output current	17.60 A	Relative humidity			
Pulse frequency	4 kHz	95 % At 40 °C (104 °F), conden			
Output frequency for vector control	0 240 Hz	Max. operation	and icing	and icing not permissible	
Output frequency for V/f control	0 550 Hz	Closed-loop control techniques		hniques	
		V/f linear / square-law / parame	terizable	Yes	
		V/f with flux current control (FC	.C)	Yes	
		V/f ECO linear / square-law		Yes	
Overload capability		Sensorless vector control		Yes	
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		Vector control, with sensor		No	
		Encoderless torque control		No	
High Overload (HO)		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		Communication			

Communication

PROFINET



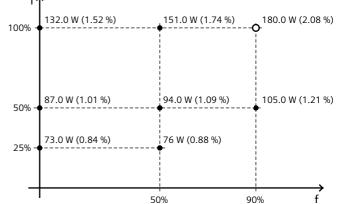
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Figure simila

Mechanical data		Connections		
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	Plug-in screw-type terminals	
Height	196.0 mm	Conductor cross-section	4.00 6.00 mm² (12 10 AWG)	
Depth	225.0 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	
ail-safe digital inputs		Max. motor cable length		
Number	1	Shielded	50 m	
Digital outputs		Unshielded	100 m	
Number as relay changeover contact	1	Converter losses to EN 50598-2*		
Output (resistive load)	DC 30 V, 1 A	Efficiency class	UFO.	
Number as transistor	1	Comparison with the reference converter (90% / 100%) -65.39 %		
Output (resistive load)	DC 30 V, 1 A			
Analog/ digital inputs		- I ↑		



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.

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

PTC/ KTY interface

Analog outputs

Number

Number

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

1 (Differential input)

1 (Non-isolated output)

Standards

Compliance with standards UL, cUL, CE, C-Tick (RCM)

CE marking EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC