

Ordering data

6SL3210-1KE22-6UF1



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

Item no. :
Consignment no. :

Project:

Rated da	ta	
nput		
Number of phases	3 AC	
Line voltage	380 480 V +10 % -20 %	
Line frequency	47 63 Hz	
Rated current (LO)	33.00 A	
Rated current (HO)	24.10 A	
Output		
Number of phases	3 AC	
Rated voltage	400 V	
Rated power (LO)	11.00 kW	
Rated power (HO)	7.50 kW	
Rated current (IN)	24.10 A	
Rated current (LO)	25.00 A	
Rated current (HO)	16.50 A	
Max. output current	33.00 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 240 Hz	
Output frequency for V/f control	0 650 Hz	

In firmware V4.7 and higher, due to legal requirements, the maximum output frequency is restricted to 550 Hz. $\,$

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

General tech. specifications			
Power factor λ	0.70 0.85		
Offset factor cos φ	0.95		
Efficiency η	0.97		
Sound pressure level (1m)	66 dB		
Power loss	0.35 kW		
Ambient conditions			

Ambient conditions				
Cooling	Air cooling using an integrated fan			
Cooling air requirement	0.018 m ³ /s			
Installation altitude	1000 m			
Ambient temperature				
Operation	-10 40 °C (14 104 °F)			
Transport	-40 70 °C (-40 158 °F)			
Storage	-40 70 °C (-40 158 °F)			
Relative humidity				

95 % At 40 °C (104 °F), condensation and icing not permissible

Closed-loop control techniques		
V/f linear / square-law / parameterizable	Yes	
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	

Communication		
Communication	PROFINET	

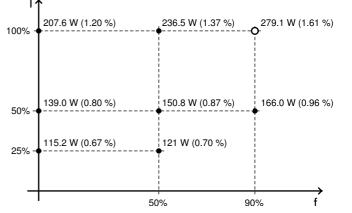


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Mechanical data		Con	Connections	
Degree of protection	IP20 / UL open type	Signal cable		
Size	FSC	Conductor cross-section	0.15 1.50 mm² (28 16 AWG)	
Net weight	4.40 kg	Line side		
Width	140.0 mm	Version	Plug-in screw-type terminals	
Height	295.0 mm	Conductor cross-section	6.00 16.00 mm² (10 5 AWG)	
Depth	225.0 mm	Motor end		
Inputs/ out	outs	Version	Plug-in screw terminals	
tandard digital inputs		Conductor cross-section	6.00 16.00 mm² (10 5 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	6.00 16.00 mm² (10 5 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	
igital 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	IFO	
Number as transistor	1	Comparison with the reference cor	IE2	
Output (resistive load)	DC 30 V, 1 A	100%)	-70.46 %	
nalog/ digital inputs		— I ↑		
Number	1 (Differential input)	207.6 W (1.20 %)	236.5 W (1.37 %) 279.1 W (1.61 %)	



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

1 motor temperature sensor input, connectable PTC, KTY, and Thermo-Click sensors, accuracy $\pm 5\,^{\circ}\text{C}$

1 (Non-isolated output)

Standards

Compliance with standards CE, cULus, c-tick

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