

Ordering data

6SL3210-1KE21-3AF1



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

Rated data				
nput				
Number of phases	3 AC			
Line voltage	380 480 V +10 % -20 %			
Line frequency	47 63 Hz			
Rated current (LO)	16.50 A			
Rated current (HO)	12.80 A			
Output				
Number of phases	3 AC			
Rated voltage	400 V			
Rated power (LO)	5.50 kW			
Rated power (HO)	4.00 kW			
Rated current (IN)	12.80 A			
Rated current (LO)	12.50 A			
Rated current (HO)	8.80 A			
Max. output current	17.60 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 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

roject:				
General tech. specifications				
Power factor λ	0.70 0.85			
Offset factor cos φ	0.95			
Efficiency η	0.97			
Sound pressure level (1m)	63 dB			
Power loss	0.18 kW			
Ambient conditions				
Cooling	Air cooling using an integra	ited fan		
Cooling air requirement	0.009 m³/s			
Installation altitude	1000 m			
Ambient temperature				
Operation	-10 40 °C (14 104 °F)			
Transport	-40 70 °C (-40 158 °F	-40 70 °C (-40 158 °F)		
Storage	-40 70 °C (-40 158 °F	-40 70 °C (-40 158 °F)		
Relative humidity				
Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	condensation and icing not		
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			
v/t ECO linear / square-law	Yes			

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		

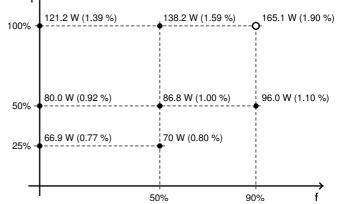


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Mechanical	data	Conn	ections
Degree of protection	IP20 / UL open type	Signal cable	
Size	FSB	Conductor cross-section	0.15 1.50 mm² (28 16 AWG)
Net weight	2.30 kg	Line side	
Width	100.0 mm	Version	Plug-in screw-type terminals
Height	196.0 mm	Conductor cross-section	4.00 6.00 mm² (12 10 AWG)
Depth	225.0 mm	Motor end	
Inputs/ out	puts	Version	Plug-in screw terminals
tandard 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
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	IF0
Number as transistor	1	Comparison with the reference conv	IE2
Output (resistive load)	DC 30 V, 1 A	100%)	-68.49 %
nalog/ digital inputs		- ↑	
Number	1 (Differential input)	121.2 W (1.39 %)	8.2 W (1.59 %) _ 165.1 W (1.90 %)



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.

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

Number	1 (Differential input)
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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 $\pm 5~^{\circ}\text{C}$

Standards

Compliance with standards CE, cULus, c-tick

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