

MLFB-Ordering data

6SL3210-1KE21-7AC1



Client order no. : Order no. :

Offer no. : Remarks : Item no. : Consignment no. : Project :

Rated data		General ted	General tech. specifications		
Input		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)	63 dB		
Rated current (LO)	21.50 A	Power loss	0.24 kW		
Rated current (HO)	18.20 A	Ambient conditions			
Output					
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)	7.50 kW	Installation altitude	1000 m		
Rated power (HO)	5.50 kW	Ambient temperature			
Rated current (IN)	17.00 A	Operation	-10 40 °C (14 104 °F)		
Rated current (LO)	16.50 A	Transport	-40 70 °C (-40 158 °F)		
Rated current (HO)	12.50 A	Storage	-40 70 °C (-40 158 °F)		
Max. output current	25.00 A	Relative humidity			
Pulse frequency	4.000 kHz		95 % At 40 °C (104 °F), condensation		
Output frequency for vector control	0 240 Hz	Max. operation	and icing not permissible		
Output frequency for V/f control	0 550 Hz	Closed-loop control techniques			
		V/f linear / square-law / parame	e terizable Yes		
		V/f with flux current control (FC	CC) Yes		
Overload capability		V/f ECO linear / square-law	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

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

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 CANopen



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Number

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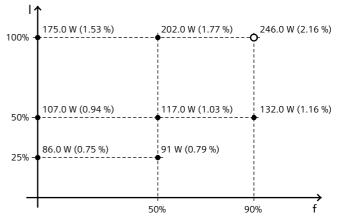
Analog outputs

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		m	

Mechanical data		Co	Connections		
Degree of protection	IP20 / UL open type	Signal cable			
Size	FSB	Conductor cross-section	0.15 1.50	mm² (24 16 AWG)	
Net weight	2.30 kg	Line side			
Width	100.0 mm	Version	Plug-in screv	w terminals	
Height	196.0 mm	Conductor cross-section	4.00 6.00	mm² (12 10 AWG)	
Depth	203.0 mm	Motor end			
Inputs / out	tputs	Version	Plug-in screv	w 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 screv	w 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 lo	sses to EN 50	598-2*	
Output (resistive load)	DC 30 V, 0.5 A	Efficiency class		IFO	
Number as transistor	1	·	Comparison with the reference converter (90% / 100%) -63.01 %		
Output (resistive load)	DC 30 V, 0.5 A				
Analog / digital inputs		l a			



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.

PTC/ KTY interface 1 motor temperature sensor input, sensors that can be connected: PTC, KTY

and Thermo-Click, accuracy ±5 °C

Standards

1 (Differential input)

1 (Non-isolated output)

Compliance with standards	UL, cUL, CE, C-Tick (RCM)
Compliance with standards	OL, COL, CE, C-TICK (NCIVI)

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

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

^{*}converted values