

MLFB-Ordering data

6SL3210-1KE21-7AF1



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

Remarks:

Item no. : Consignment no. :

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Rated da	ta	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		Caaliaa			
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 kHz		95 % At 40 °C (104 °F), condensatio and icing not permissible		
Output frequency for vector control	0 240 Hz	Max. operation			
Output frequency for V/f control	0 550 Hz	Closed-loop c	control techniques		
		V/f linear / square-law / paramet	terizable Yes		
		V/f with flux current control (FC	CC) 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		
300 s cycle time		Encouciness torque control			
300 s cycle time High Overload (HO)		Torque control, with encoder	No		

Communication

PROFINET



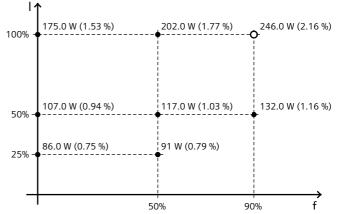
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Mechanical data		Connections				
Degree of protection	IP20 / UL open type	Signal cable				
Size	FSB	Conductor cross-section	0.15 1.50 mm² (28 16 AWG)			
Net weight	2.30 kg	Line side				
Width	100.0 mm	Version	Plug-in screw terminals			
Height	196.0 mm	Conductor cross-section	4.00 6.00 mm² (12 10 AWG)			
Depth	225.0 mm	Motor end				
Inputs / ou	tputs	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			
Fail-safe digital inputs		Max. motor cable length				
Number	1	Shielded	50 m			
Digital outputs		Unshielded	100 m			
Number as relay changeover contact	1	Converter los	sses to EN 50598-2*			
Output (resistive load)	DC 30 V, 0.5 A	Efficiency class	IFO			
Number as transistor	1	Comparison with the reference c	Onverter (90% /			
Output (resistive load)	DC 30 V, 0.5 A	100%)	-63.01 %			
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.

PTC/ KTY interface

Number

Number

Analog outputs

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy ±5 °C

1 (Differential input)

1 (Non-isolated output)

Standards

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

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.

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