

MLFB-Ordering data

6SL3210-1KE12-3AP1



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

Item no.: Consignment no. : Project :

Rated data		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)	52 dB		
Rated current (LO)	2.90 A	Power loss 0.05 kW			
Rated current (HO)	2.50 A	Ambient conditions			
utput		- "			
Number of phases	3 АС	Cooling	Air cooling using an integrate		
Rated voltage	400 V	Cooling air requirement 0.005 m³/s			
Rated power (LO)	0.75 kW	Installation altitude 1000 m			
Rated power (HO)	0.55 kW	Ambient temperature			
Rated current (IN)	2.30 A	Operation -10 40 °C (14 10			
Rated current (LO)	2.20 A	Transport -40 70 °C (-40 158 °F			
Rated current (HO)	1.70 A	Storage -40 70 °C (-40 15			
Max. output current	3.40 A	Relative humidity			
Pulse frequency	4 kHz	Max. operation	95 % At 40 °C (104 °F), condensa and icing not permissible		
Output frequency for vector control	0 240 Hz	мах. орегацоп			
Output frequency for V/f control	0 550 Hz	Closed-loop control techniques			
		V/f linear / square-law / parameterizable 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)	110 % hase load current II for 57 s in a	Vector control, with sensor	No		
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		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	PROFIBUS DP		



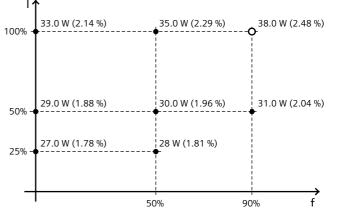
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NA - alaa - * 1	l data		Figure simil				
Mechanical data		Co	Connections				
Degree of protection	IP20 / UL open type	Signal cable					
Size	FSA	Conductor cross-section	0.15 1.50 mm² (28 16 AWG)				
Net weight	1.70 kg	Line side					
Width	73.0 mm	Version	Plug-in screw terminals				
Height	196.0 mm	Conductor cross-section	1.00 2.50 mm² (16 14 AWG)				
Depth	203.0 mm	Motor end					
Inputs / ou	tputs	Version	Plug-in screw terminals				
Standard digital inputs		Conductor cross-section	1.00 2.50 mm² (16 14 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	1.00 2.50 mm² (16 14 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	150				
Number as transistor	1	Comparison with the reference converter (90% / 100%) 1E2 -77.50 %					
Output (resistive load)	DC 30 V, 0.5 A						
Analog / digital inputs							
Number	1 (Differential input)	33.0 W (2.14 %)	35.0 W (2.29 %) 				



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

Analog outputs

Number

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

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