

MLFB-Ordering data

6SL3210-1KE11-8UP1



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

Item no. : Consignment no. : Project :

Rated da	General tech. specifications					
Input		Power factor λ	0.5	0.70 0.85		
Number of phases	3 AC	Offset factor cos φ	0.9	95		
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	97		
Line frequency	47 63 Hz	Sound pressure level (1m)	52	dB		
Rated current (LO)	2.30 A	Power loss	0.0	04 kW		
Rated current (HO)	1.90 A	Ambient conditions				
Output		Cooling	Air coolir	ng using an integrated for		
Number of phases	3 AC	Cooling	All COOIII	Air cooling using an integrated fan		
Rated voltage	400 V	Cooling air requirement 0.005 m³/s				
Rated power (LO)	0.55 kW	Installation altitude 1000 m				
Rated power (HO)	0.37 kW	Ambient temperature				
Rated current (IN)	1.80 A	Operation	-10 40	°C (14 104 °F)		
Rated current (LO)	1.70 A	Transport -40 70 °C (-40		°C (-40 158 °F)		
Rated current (HO)	1.30 A	Storage	-40 70	°C (-40 158 °F)		
Max. output current	2.60 A	Relative humidity				
Pulse frequency	4 kHz			at 40 °C (104 °F), condensation ng not permissible		
Output frequency for vector control	0 240 Hz					
Output frequency for V/f control	0 550 Hz	Closed-loop	control tec	hniques		
		V/f linear / square-law / paramo	eterizable	Yes		
		V/f with flux current control (F	CC)	Yes		
		V/f ECO linear / square-law		Yes		
Overload capability		Sensorless vector control		Yes		
Low Overload (LO)	110 W base lead surrent II for E7 a in a	Vector control, with sensor		No		
150 % base load current IL for 3 s, followed by	1 10 % base load cufferfull lof 57 \$ In a					

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

Communication

Communication PROFIBUS DP

Encoderless torque control

Torque control, with encoder

No

No



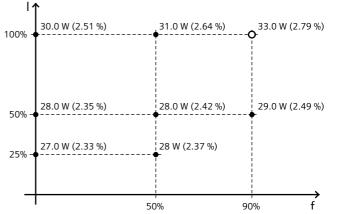
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			Figure simi			
Mechanica	l data	Co	Connections			
Degree of protection	IP20 / UL open type	Signal cable				
Size	FSA	Conductor cross-section	0.15 1.50 mm² (28 16 AWG)			
Net weight	1.70 kg	Line side				
Width	73.0 mm	Version	Plug-in screw terminals			
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				
Number as transistor	1		IE2			
Output (resistive load)	DC 30 V, 0.5 A	Comparison with the reference converter (90% / 100%)				
Analog / digital inputs						
Number	1 (Differential input)	30.0 W (2.51 %)	31.0 W (2.64 %) •			



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.

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

Analog outputs

PTC/ KTY interface

Number

Standards

1 (Non-isolated output)

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

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

Directive 2006/95/EC

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