

MLFB-Ordering data

6SL3210-1KE18-8AB1



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

Item no.: Consignment no. : Project :

Rated da	ata	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)	11.40 A	Power loss	0.15 kW		
Rated current (HO)	10.60 A	Ambient conditions			
Output		C. II.	A. I		
Number of phases	3 AC	Cooling	Air cooling using an integrated fan		
Rated voltage	400 V	Cooling air requirement	0.005 m³/s		
Rated power (LO)	4.00 kW	Installation altitude 1000 m			
Rated power (HO)	3.00 kW	Ambient temperature			
Rated current (IN)	9.00 A	Operation	-10 40 °C (14 104 °F)		
Rated current (LO)	8.80 A	Transport	-40 70 °C (-40 158 °F)		
Rated current (HO)	7.30 A	Storage	-40 70 °C (-40 158 °F)		
Max. output current	14.60 A	Relative humidity			
Pulse frequency	4 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 / paramete	erizable Yes		
		V/f with flux current control (FCC	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		
High Overload (HO)		Torque control, with encoder	No		
200 % base load current IH for 3 s, followed by 300 s cycle time	150 % base load current IH for 57 s in a	Communication			
•		Communication	RS485		



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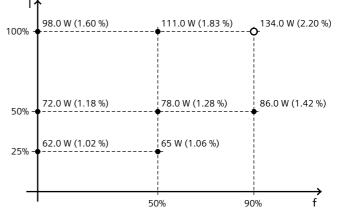
Analog outputs

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Mechanical data		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 / out	puts	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 losses 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		1.4			



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 $\pm 5~^\circ\text{C}$					
Standards					
Compliance with standards	UL, cUL, CE, C-Tick (RCM)				

1 (Differential input)

1 (Non-isolated output)

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

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