

MLFB-Ordering data

6SL3210-1KE17-5AF1



Client order no. :		
Order no. :		
Offer no. :		
B 1		

Item no.: Consignment no. : Project :

Remarks :				
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)	9.50 A	Power loss	0.14 kW	
Rated current (HO)	8.20 A	Ambient conditions		
Output		Ambient	Conditions	
Number of phases	3 AC	Cooling	Air cooling using an integrated fan	
Rated voltage	400 V	Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Rated power IEC 400V (LO)	3.00 kW	Installation altitude	1000 m (3280.84 ft)	
Rated power NEC 480V (LO)	4.00 hp	Ambient temperature		
Rated power IEC 400V (HO)	2.20 kW	·		
Rated power NEC 480V (HO)	3.00 hp	Operation	-10 40 °C (14 104 °F)	
Rated current (IN)	7.50 A	Transport -40 70 °C (-40 158 °		
Rated current (LO)	7.30 A	Storage -40 70 °C (-40 158 °F)		
Rated current (HO)	5.60 A	Relative humidity		
Max. output current	11.20 A	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
Pulse frequency	4.000 kHz			
Output frequency for vector control	0 240 Hz	Closed-loop co	ntrol techniques	
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parameter	rizable 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)		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 $300s$ cycle time		Encoderless torque control	No	

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

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Communication PROFINET / EtherNet/IP

Torque control, with encoder

No



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Mechanical data		Со	Figure similar		
Degree of protection	IP20 / UL open type	Signal cable			
Size	FSA	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)		
Net weight	1.70 kg (3.75 lb)	Line side			
Width	73 mm (2.87 in)	Version	Plug-in screw terminals		
Height	196 mm (7.72 in)	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)		
Depth	225 mm (8.86 in)	Motor end			
Inputs / out	tputs	Version	Plug-in screw terminals		
Standard digital inputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)		
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 (AWG 18 AWG 14)		
Max. inrush current	15 mA	Line length, max.	15 m (49.21 ft)		
Fail-safe digital inputs		PE connection	On housing with M4 screw		
Number	1	Max. motor cable length			
Digital outputs		Shielded	150 m (492.13 ft)		
Number as relay changeover contact	1	Unshielded	150 m (492.13 ft)		
Output (resistive load)	DC 30 V, 0.5 A	Standards			
Number as transistor	1	Compliance with standards	UL, cUL, CE, C-Tick (RCM)		
Output (resistive load)	DC 30 V, 0.5 A		FMC Directive 2004/100/FC Levy Velterie		
Analog / digital inputs		CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC		
Number	1 (Differential input)				
Analog outputs					

Number

PTC/ KTY interface

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\text{C}$

1 (Non-isolated output)



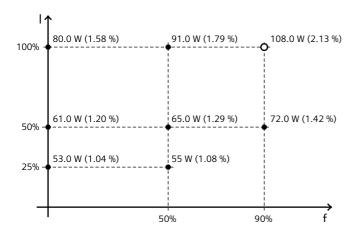
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-68.30 %



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.

*converted values