

MLFB-Ordering data

6SL3210-1KE13-2AF2



Figure similar

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

ltem no. :	
Consignment no. :	
Project :	

Rated da	ta	General tech. specifications		
Input		Power factor λ	0.70 0.85	
Number of phases	3 AC	Offset factor $\cos \phi$	0.95	
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97	
Line frequency	47 63 Hz	Sound pressure level (1m)	49 dB	
Rated current (LO)	4.10 A	Power loss	0.05 kW	
Rated current (HO)	3.20 A	Ambient conditions		
Output		Cooling	Air cooling using an integrated	d fan
Number of phases	3 AC	coomig		u Idii
Rated voltage	400 V	Cooling air requirement	0.005 m³/s	
Rated power (LO)	1.10 kW	Installation altitude	1000 m	
Rated power (HO)	0.75 kW	Ambient temperature		
Rated current (IN)	3.20 A	Operation	-10 40 °C (14 104 °F)	
Rated current (LO)	3.10 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (HO)	2.20 A	Storage	-40 70 °C (-40 158 °F)	
Max. output current	4.40 A	Relative humidity		
Pulse frequency	4 kHz	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
Output frequency for vector control	0 240 Hz			
Output frequency for V/f control	0 550 Hz	Closed-loop control techniques		
			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) 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 7 300 s cycle time	150 % base load current IH for 57 s in a	Communication		
		Communication	PROFINET	



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Figure similar Mechanical data Connections Degree of protection IP20 / UL open type Signal cable Size FSAA Conductor cross-section 0.15 ... 1.50 mm² (28 ... 16 AWG) Net weight Line side 1.40 kg Width 73.0 mm Version Plug-in screw-type terminals 173.0 mm Conductor cross-section 1.00 ... 2.50 mm² (16 ... 14 AWG) Height Depth 178.0 mm Motor end Inputs / outputs 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 1.00 ... 2.50 mm² (16 ... 14 AWG) 5 V Conductor cross-section 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* DC 30 V, 0.5 A **Output (resistive load)** Efficiency class IF2 Number as transistor Comparison with the reference converter (90% / -77.90 % 100%) **Output (resistive load)** DC 30 V, 0.5 A Analog / digital inputs 40.6 W (1.89 %) 44.2 W (2.06 %) 49.8 W (2.32 %) Number 1 (Differential input) ሳ 100% Analog outputs Number 1 (Non-isolated output) 33.6 W (1.56 %) 37.3 W (1.74 %) 35.2 W (1.64 %) 50% PTC/ KTY interface 30.8 W (1.43 %) 32 W (1.46 %) 25% 1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy ±5 °C 50% 90% **Standards** The percentage values show the losses in relation to the rated apparent power of the converter. UL, cUL, CE, C-Tick (RCM) **Compliance with standards** The diagram shows the losses for the points (as per standard EN 50598) of the relative torque EMC Directive 2004/108/EC, Low-Voltage

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

version of the converter without options/components.

generating current (I) over the relative motor stator frequency(f). The values are valid for the basic

Directive 2006/95/EC

CE marking