

MLFB-Ordering data

6SL3210-1KE13-2AF2



Figure similar

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

Remarks :					
Rated data		General tech. specifications			
Input		Power factor λ	0.7	0 0.85	
Number of phases	3 AC	Offset factor cos φ	0.9	5	
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	7	
Line frequency	47 63 Hz	Sound pressure level (1m)	49	dB	
Rated current (LO)	4.10 A	Power loss	0.0	5 kW	
Rated current (HO)	3.20 A	Filter class (integrated)	Cla	ss A	
Output		Ambiant	t condition		
Number of phases	3 AC	Ambient	Condition	15	
Rated voltage	400 V	Cooling	Air cooling	g using an integrated fan	
Rated power IEC 400V (LO)	1.10 kW	Cooling air requirement	0.00E m3/	c (0 177 ft3/c)	
Rated power NEC 480V (LO)	1.50 hp	Cooling air requirement 0.005 m³/s (0.177 ft³/s) Installation altitude 1000 m (3280.84 ft)			
Rated power IEC 400V (HO)	0.75 kW	Installation altitude	1000 m (s	3280.84 ft)	
Rated power NEC 480V (HO)	1.00 hp	Ambient temperature			
Rated current (LO)	3.10 A	Operation -10 40 °C (14 104 °F)		°C (14 104 °F)	
Rated current (HO)	2.20 A	Transport	-40 70 ·	°C (-40 158 °F)	
Rated current (IN)	3.20 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				
curpus maquemay non vocator common	atput frequency for vector control 0 240 fiz		Closed-loop control techniques		
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramete	erizable	Yes	
		V/f with flux current control (FCC	:)	Yes	
Overload capability		V/f ECO linear / square-law		Yes	
Low Overload (LO)		Sensorless vector control		Yes	
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	

Item no.: Consignment no. : Project :

200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time

High Overload (HO)

No

Torque control, with encoder



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			Figure sin	
Mechanical data		Com	nmunication	
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP	
Size	FSAA	Connections		
Net weight	1.40 kg (3.09 lb)	Signal cable		
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16	
Height	173 mm (6.81 in)	Line side		
Depth	160 mm (6.30 in)	Version	Plug-in screw terminals	
Inputs / ou	tputs	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14	
tandard digital inputs		Motor end		
Number	6	Version	Plug-in screw terminals	
Switching level: 0→1	11 V	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14	
Switching level: 1→0	5 V	DC link (for braking resistor)	
Max. inrush current	15 mA	Version	Plug-in screw terminals	
ail-safe digital inputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14	
Number	1	Line length, max.	15 m (49.21 ft)	
Digital outputs		PE connection	On housing with M4 screw	
Number as relay changeover contact	1	Max. motor cable length	On Housing with Min sciew	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)	
Number as transistor	1	Unshielded	100 m (328.08 ft)	
Output (resistive load)	DC 30 V, 0.5 A	Standards		
Analog / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Number	1 (Differential input)			
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Low-Volta Directive 2006/95/EC	
witching threshold as digital in	put			
0→1	4 V			
1→0	1.6 V			
Analog outputs				

PTC/ KTY interface

Number

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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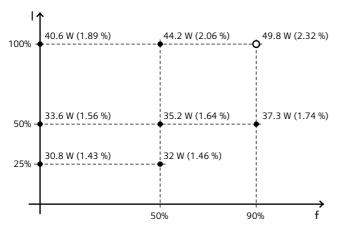
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Salar Sa

Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-77.90 %



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