

MLFB-Ordering data

6SL3210-1KE18-8AP1



Figure similar

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

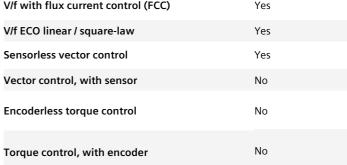
ltem no. :
Consignment no. :
Project :

Rated da	ita	General te	ch. 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	Filter class (integrated)	Class A		
Output		Ambie	nt conditions		
Number of phases	3 AC				
Rated voltage	400 V	Cooling	Air cooling using an integrated fan		
Rated power IEC 400V (LO)	4.00 kW	Cooling oir requirement	0.005 = 3/2 (0.177 ft 3/2)		
Rated power NEC 480V (LO)	5.00 hp	Cooling air requirement0.005 m³/s (0.177 ft³/s)Lot III structure this descent1000 (2000 04 ft)			
Rated power IEC 400V (HO)	3.00 kW	Installation altitude 1000 m (3280.84 ft)			
Rated power NEC 480V (HO)	4.00 hp	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	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible		
Output frequency for vector control	0 240 Hz				
		Closed-loop control techniques			
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramo	eterizable Yes		
		V/f with flux current control (F	CC) 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		Vector control, with sensor	No		

s, ed by 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







MLFB-Ordering data

6SL3210-1KE18-8AP1



Figure similar

Mechanical data		Figure sim		
Degree of protection	IP20 / UL open type	Communication	PROFIBUS DP	
Size	FSA	Co	Connections	
Net weight	1.70 kg (3.75 lb)	Signal cable		
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 m	
Height	196 mm (7.72 in)	Line side		
Depth	203 mm (7.99 in)	Version	Plug-in screw t	
Inputs / ou	tputs	Conductor cross-section	1.00 2.50 m	
Standard digital inputs	•	 Motor end		
Number	6	Version	Plug-in screw to	
Switching level: 0→1	11 V	Conductor cross-section	1.00 2.50 m	
Switching level: 1→0	5 V	DC link (for braking resistor))	
Max. inrush current	15 mA	Version	Plug-in screw te	
ail-safe digital inputs		Conductor cross-section	1.00 2.50 m	
Number	1	Line length, max.	15 m (49.21 ft)	
Digital outputs		PE connection		
Number as relay changeover contact	1	Max. motor cable length	On housing wit	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 f	
Number as transistor	1	Unshielded	150 m (492.13	
Output (resistive load)	DC 30 V, 0.5 A	S	tandards	
Analog / digital inputs		Compliance with standards	UL, cUL, CE, C-1	
Number	1 (Differential input)			
Resolution	10 bit	CE marking	EMC Directive 2 Directive 2006/	
Switching threshold as digital in	put			
0→1	4 V			
1→0	1.6 V			
Analog outputs				
Number	1 (Non-isolated output)			
PTC/ KTY interface				

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





MLFB-Ordering data

6SL3210-1KE18-8AP1



Figure similar

Converter losses to EN 50598-2*

Efficiency class IE2 Comparison with the reference converter (90% / -65.57 % 100%) -**O**-^{134.0 W (2.20 %)} 98.0 W (1.60 %) 111.0 W (1.83 %) 100% 72.0 W (1.18 %) 78.0 W (1.28 %) 86.0 W (1.42 %) 50% 62.0 W (1.02 %) 65 W (1.06 %) 25% 50% 90% f

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

