

MLFB-Ordering data

6SL3210-1KE18-8UF1



Figure similar

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

ltem no. :
Consignment no. :
Proiect :

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)	11.40 A	Power loss	0.15 kW	
Rated current (HO)	10.60 A	Filter class (integrated)	Unfiltered	
Output		Amhia	ut an ultions	
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air cooling using an integrated fa	
Rated power IEC 400V (LO)	4.00 kW			
Rated power NEC 480V (LO)	5.00 hp	Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
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)	
		Transport	-40 70 °C (-40 158 °F)	
Rated current (LO)	8.80 A	Storage	-40 70 °C (-40 158 °F)	
Rated current (HO)	7.30 A	Relative humidity		
Max. output current	14.60 A	······		
Pulse frequency	4 kHz	Max. operation	95 % At 40 °C (104 °F), condensa 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 / parameterizable Yes		
		V/f with flux current control (F	CC) Yes	
Overload capability		V/f ECO linear / square-law	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

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

V/f with flux current control (FCC)	Yes
V/f ECO linear / square-law	Yes
Sensorless vector control	Yes
Vector control, with sensor	No
Encoderless torque control	No
Torque control, with encoder	No



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Mechanical data		Figure simila Communication	
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP
Size	FSA	Connections	
Net weight	1.70 kg (3.75 lb)	Signal cable	
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
Height	196 mm (7.72 in)	Line side	
Depth	208 mm (8.19 in)	Version	Plug-in screw terminals
Inputs / outputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)
standard 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 mm ² (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 nousing with we screw
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)
Number as transistor	1	Unshielded	150 m (492.13 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-Voltag Directive 2006/95/EC
Switching threshold as digital in	out		
0→1	4 V		
1→0	1.6 V		
Analog outputs			
Number	1 (Non-isolated output)		
PTC/ KTY interface			
1 motor tomporature concor input conco		,	

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



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Figure similar

Converter losses to EN 50598-2* Efficiency class IE2 Comparison with the reference converter (90% / -66.51 % 100%) -**O**-^{130.0 W (2.14 %)} 98.0 W (1.60 %) 110.0 W (1.81 %) 100% 72.0 W (1.18 %) 78.0 W (1.27 %) 85.0 W (1.40 %) 50% 62.0 W (1.02 %) 65 W (1.06 %) 25% f 50% 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