

MLFB-Ordering data

6SL3210-1KE22-6UF1



Figure similar

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

Item no.: Consignment no. : Project:

Rated o	lata
nput	
Number of phases	3 AC
Line voltage	380 480 V +10 % -20 %
Line frequency	47 63 Hz
Rated current (LO)	33.00 A
Rated current (HO)	24.10 A
Output	
Number of phases	3 AC
Rated voltage	400 V
Rated power IEC 400V (LO)	11.00 kW
Rated power NEC 480V (LO)	15.00 hp
Rated power IEC 400V (HO)	7.50 kW
Rated power NEC 480V (HO)	10.00 hp
Rated current (IN)	26.00 A
Rated current (LO)	25.00 A
Rated current (HO)	16.50 A
Max. output current	33.00 A
Pulse frequency	4.000 kHz
Output frequency for vector control	0 240 Hz
Output frequency for V/f control	0 550 Hz

Overload ca	pability
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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

General tech. specifications			
D	0.70 0.05		
Power factor λ	0.70 0.85		
Offset factor cos φ	0.95		
Efficiency η	0.97		
Sound pressure level (1m)	66 dB		
Power loss	0.35 kW		
Filter class (integrated)	Unfiltered		

Ambient conditions			
Cooling	Air cooling using an integrated fan		
Cooling air requirement	0.018 m³/s (0.636 ft³/s)		
Installation altitude	1000 m (3280.84 ft)		
Ambient temperature			
Operation	-10 40 °C (14 104 °F)		
Transport	-40 70 °C (-40 158 °F)		
Storage	-40 70 °C (-40 158 °F)		
Relative humidity			

	05.0/ At 40.05 (404.05)
Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible
Max. operation	and icing not permissible

Closed-loop control techniques		
V/f linear / square-law / parameterizable	Yes	
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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			Figure simi		
Mechanical data		Com	Communication		
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP		
Size	FSC	Connections			
Net weight	4.40 kg (9.70 lb)	Signal cable			
Width	140 mm (5.51 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)		
Height	295 mm (11.61 in)	Line side			
Depth	225 mm (8.86 in)	Version	Plug-in screw terminals		
Inputs / out	tputs	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)		
Standard digital inputs		Motor end			
Number	6	Version	Plug-in screw terminals		
Switching level: 0→1	11 V	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)		
Switching level: 1→0	5 V	DC link (for braking resistor))		
Max. inrush current	15 mA	Version	Plug-in screw terminals		
Fail-safe digital inputs			-		
Number	1	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)		
Digital outputs		Line length, max.	15 m (49.21 ft)		
Number as relay changeover contact	1	PE connection Max. motor cable length	On housing with M4 screw		
Output (resistive load)	DC 30 V, 0.5 A	Shielded	150 m (492.13 ft)		
Number as transistor	1	Unshielded	150 m (492.13 ft)		
Output (resistive load)	DC 30 V, 0.5 A	S	tandards		
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	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 $\pm 5~^{\circ}\text{C}$



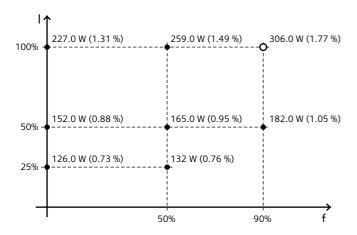
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-67.40 %



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