

MLFB-Ordering data

6SL3210-1KE22-6UF1



Client order no. : Item no. :
Order no. : Consignment no. :
Offer no. : Project :
Remarks :

Remarks :					
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)	66 d	В	
Rated current (LO)	33.00 A	Power loss	0.35	kW	
Rated current (HO)	24.10 A	Filter class (integrated)	Unfi	tered	
Output		Ambion	t condition		
Number of phases	3 AC	Ambient conditions			
Rated voltage	400 V	Cooling	Air cooling	using an integrated fan	
Rated power IEC 400V (LO)	11.00 kW		2010 21	(0.505.621.)	
Rated power NEC 480V (LO)	15.00 hp	Cooling air requirement 0.018 m³/s (0.636 ft³/s)			
Rated power IEC 400V (HO)	7.50 kW	Installation altitude	1000 m (32	280.84 ft)	
Rated power NEC 480V (HO)	10.00 hp	Ambient temperature			
Rated current (LO)	25.00 A	Operation	-10 40 °C	C (14 104 °F)	
Rated current (HO)	16.50 A	Transport	-40 70 °C	C (-40 158 °F)	
Rated current (IN)	26.00 A	Storage	-40 70 °C	C (-40 158 °F)	
		Relative humidity			
Max. output current	33.00 A		95 % At 40 °C (104 °F), condensation and icing not permissible		
Pulse frequency	4 kHz	Max. operation			
Output frequency for vector control	0 240 Hz				
		Closed-loop control techniques 550 Hz V/f linear / square-law / parameterizable Yes		niques	
Output frequency for V/f control	0 550 Hz			Yes	
		V/f with flux current control (FCC	E)	Yes	
Overload capability		V/f ECO linear / square-law		Yes	

Overload capability

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

Sensorless vector control

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

Yes

No

No

No



MLFB-Ordering data

6SL3210-1KE22-6UF1



			•	
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	
Height	295 mm (11.61 in)	Line side		
Depth	208 mm (8.19 in)	Version	Plug-in screw terminals	
Inputs / out	tputs	Conductor cross-section	6.00 16.00 mm² (AWG 10 .	
tandard 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	
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	6.00 16.00 mm² (AWG 10	
Number	1	Line length, max.	15 m (49.21 ft)	
Pigital outputs		PE connection	On housing with M4 screw	
Number as relay changeover contact	1	Max. motor cable length	on nousing warm r serew	
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		
nalog / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Number	1 (Differential input)		01, 001, 01, 0 Her (Hell)	
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Lo 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)



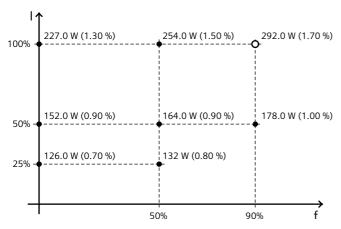
MLFB-Ordering data

6SL3210-1KE22-6UF1

Figure similar

Converter losses to IEC61800-9-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	32.50 %



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 IEC61800-9-2) 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