

MLFB-Ordering data

6SL3210-1KE13-2UF2



Figure similar

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

Item no.: Consignment no. : Project :

Rated data			Genera	
Input			Power factor λ	
Number of phases	3 AC		Offset factor cos φ	
Line voltage	380 480 \	V +10 % -20 %	Efficiency η	
Line frequency	47 63 Hz		Sound pressure level (1m)	
Rated current (LO)	4.10 A		Power loss	
Rated current (HO)	3.20 A		Filter class (integrated)	
Output			Ami	
Number of phases	3 AC		Ami	
Rated voltage	400V IEC	480V NEC	Cooling	
Rated power (LO)	1.10 kW	1.50 hp		
Rated power (HO)	0.75 kW	1.00 hp	Cooling air requirement	
Rated current (LO)	3.10 A		Installation altitude	
Rated current (HO)	2.20 A		Ambient temperature	
Rated current (IN)	3.20 A		Operation	
. ,			Transport	
Max. output current	4.40 A		Storage	
Pulse frequency	4 kHz		Relative humidity	
Output frequency for vector control	0 240 Hz			
			Max. operation	
Output frequency for V/f control	0 550 Hz			
			Closed-los	

General tech. specifications			
Power factor λ	0.70 0.85		
Offset factor cos φ	0.95		
Efficiency η	0.97		
Sound pressure level (1m)	49 dB		
Power loss	0.05 kW		
Filter class (integrated)	Unfiltered		
Ambient conditions			
Cooling	Air cooling using an integrated fan		
Cooling air requirement	0.005 m ³ /s (0.177 ft ³ /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			
Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible		

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

C	losed	-Іоор	control	techniques	

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		



MLFB-Ordering data

6SL3210-1KE13-2UF2



			Figure	
Mechanical data		Communication		
egree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP	
ize	FSAA	Co	nnections	
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	
Height	173 mm (6.81 in)	Line side		
Depth	160 mm (6.30 in)	Version	Plug-in screw terminals	
Inputs / out	puts	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG	
andard 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	
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	
Number	1	Line length, max.	15 m (49.21 ft)	
igital outputs		PE connection	On housing with M4 screw	
Number as relay changeover contact	1	Max. motor cable length	on nousing man in solici.	
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		
nalog / 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-Vo Directive 2006/95/EC	
vitching threshold as digital inរុ	out			
0→1	4 V			
1→0	1.6 V			
nalog 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

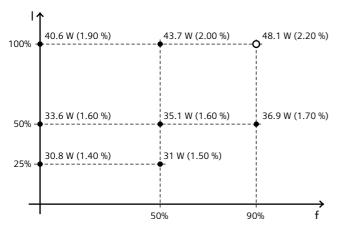
6SL3210-1KE13-2UF2

THE STATE OF THE S

Figure similar

Converter losses to IEC61800-9-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	27.30 %



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