

MLFB-Ordering data

6SL3210-1KE12-3UF2



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated da	ta		General teo	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)	49 dB
Rated current (LO)	2.90 A		Power loss	0.04 kW
Rated current (HO)	2.50 A		Filter class (integrated)	Unfiltered
Output			- Auchieu	
Number of phases	3 AC		Ambiei	nt conditions
Rated voltage	400V IEC	480V NEC	Cooling	Air cooling using an integrated fan
Rated power (LO)	0.75 kW	1.00 hp		
Rated power (HO)	0.55 kW	0.75 hp	Cooling air requirement	0.005 m³/s (0.177 ft³/s)
Rated current (LO)	2.20 A		Installation altitude	1000 m (3280.84 ft)
Rated current (HO)	1.70 A		Ambient temperature	
Rated current (IN)	2.30 A		Operation	-10 40 °C (14 104 °F)
Max. output current	3.40 A		Transport	-40 70 °C (-40 158 °F)
Pulse frequency	4 kHz		Storage	-40 70 °C (-40 158 °F)
			Relative humidity	
Output frequency for vector control	0 240 Hz		Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible
Output frequency for V/f control	0 550 Hz			

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
t IL for 57 s in a	Vector control, with sensor	No
	Encoderless torque control	No
t IH for 57 s in a	Torque control, with encoder	No

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



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Mechanical data		Com	Communication	
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP	
Size	FSAA	Connections		
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 AV	
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 AW	
tandard 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 AW	
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 AW	
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	5	
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	S	tandards	
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- Directive 2006/95/EC	
witching threshold as digital in	put			
0→1	4 V			
1→0	1.6 V			
nalog outputs				
Number	1 (Non-isolated output)			
TC/ KTY interface				

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



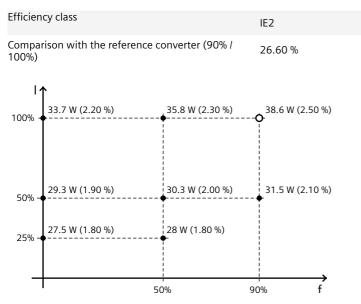
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Figure similar

Converter losses to IEC61800-9-2*



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