

MLFB-Ordering data

6SL3210-1KE27-0AF1



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

Item no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
Input		Power factor λ	0.9	0 0.95
Number of phases	3 AC	Offset factor cos φ	0.9	9
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	8
Line frequency	47 63 Hz	Sound pressure level (1m)	72	dB
Rated current (LO)	64.00 A	Power loss	1.0	12 kW
Rated current (HO)	61.00 A	Filter class (integrated)	Cla	ss A
Output		Ambion	t conditio	~~~
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air coolin	g using an integrated fan
Rated power IEC 400V (LO)	37.00 kW	Cooling air requirement	0 055 m³/	′s (1.942 ft³/s)
Rated power NEC 480V (LO)	40.00 hp	Installation altitude		3280.84 ft)
Rated power IEC 400V (HO)	30.00 kW		1000 111 (:	5260.64 1()
Rated power NEC 480V (HO)	30.00 hp	Ambient temperature		
Rated current (LO)	68.00 A	Operation	-20 40 °C (-4 104 °F)	
Rated current (HO)	58.00 A	Transport	-40 70	°C (-40 158 °F)
Rated current (IN)	68.00 A	Storage	-40 70	°C (-40 158 °F)
Max. output current	116.00 A	Relative humidity		
Pulse frequency	4 kHz	Max. operation	95 % RH,	condensation not permitted
Output frequency for vector control	0 240 Hz			
		Closed-loop o	ontrol tecl	hniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parame	terizable	Yes
		V/f with flux current control (FC	C)	Yes
Overload capability		V/f ECO linear / square-law		Yes
Low Overload (LO)		Sensorless vector control		Yes
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Vector control, with sensor		No
		Encoderless torque control		No
High Overload (HO) 200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a		Torque control, with encoder		No

300 s cycle time



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Mechanical data		Com	Figure simila	
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP	
Size	FSD	Connections		
Net weight	19.50 kg (42.99 lb)	Signal cable		
Width	200 mm (7.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Height	472 mm (18.58 in)	Line side		
Depth	237 mm (9.33 in)	Version	screw-type terminal	
Inputs / outputs		Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)	
Standard digital inputs		Motor end		
Number	6	Version	Screw-type terminals	
Switching level: 0→1	11 V	Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)	
Switching level: 1→0	5 V	DC link (for braking resistor))	
Max. inrush current	15 mA	Version	Screw-type terminals	
Fail-safe digital inputs		Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)	
Number	1	Line length, max.	10 m (32.81 ft)	
Digital outputs		-		
Number as relay changeover contact	1	PE connection Max. motor cable length	Screw-type terminals	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	200 m (656.17 ft)	
Number as transistor	1	Unshielded	300 m (984.25 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	put			
0→1	4 V			

Analog outputs

Number

1→0

1 (Non-isolated output)

1.6 V

PTC/ KTY interface

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

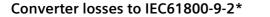


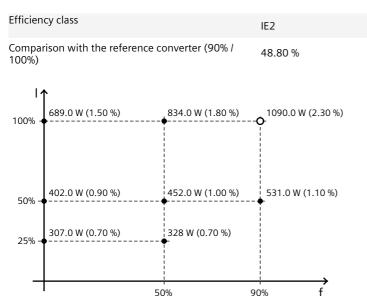
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Figure similar





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