

MLFB-Ordering data

6SL3210-1KE28-4UF1



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

ltem no. :	
Consignment no. :	
Project :	

Rated data		General tec	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)	76.00 A	Power loss	1.0	11 kW	
Rated current (HO)	69.00 A	Filter class (integrated)	Un	filtered	
Output		Ambien			
Number of phases	3 AC	Ambient conditions			
Rated voltage	400 V	Cooling	Air cooling	g using an integrated fan	
Rated power IEC 400V (LO)	45.00 kW	Cooling air requirement	0.055 m ³ /	/s (1.942 ft³/s)	
Rated power NEC 480V (LO)	50.00 hp	Installation altitude		3280.84 ft)	
Rated power IEC 400V (HO)	37.00 kW		1000 111 (.	5260.64 1()	
Rated power NEC 480V (HO)	40.00 hp	Ambient temperature	20 40		
Rated current (LO)	82.50 A	Operation _		°C (-4 104 °F)	
Rated current (HO)	68.00 A	Transport		°C (-40 158 °F)	
Rated current (IN)	82.50 A	Storage	-40 70	°C (-40 158 °F)	
Max. output current	136.00 A	Relative humidity			
Pulse frequency	4 kHz	Max. operation	95 % RH,	condensation not permitte	
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)		Torque control with another		No	
200 % base load current IH for 3 s, followed by 300 s cycle time	150 % base load current IH for 57 s in a	Torque control, with encoder		NO	

300 s cycle time



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			Fig		
Mechanical data		Com	Communication		
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP		
Size	FSD	Connections			
Net weight	18.80 kg (41.45 lb)	Signal cable			
Width	200 mm (7.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AW		
Height	472 mm (18.58 in)	Line side			
Depth	237 mm (9.33 in)	Version	screw-type terminal		
Inputs / out	tputs	Conductor cross-section	10.00 35.00 mm² (AWG 8 A\		
tandard 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 A)		
Switching level: 1→0	5 V	DC link (for braking resistor)		
Max. inrush current	15 mA	Version	Screw-type terminals		
ail-safe digital inputs		Conductor cross-section	10.00 35.00 mm² (AWG 8 A)		
Number	1	Line length, max.	10 m (32.81 ft)		
Digital outputs		PE connection	Screw-type terminals		
Number as relay changeover contact	1	Max. motor cable length	Sciew 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	S	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- Directive 2006/95/EC		
witching 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 $\pm 5~^\circ\mathrm{C}$

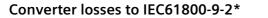


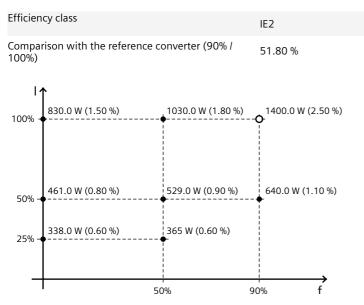
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Figure similar





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