

MLFB-Ordering data

6SL3210-1KE31-4UF1



Figure similar

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	9
Line frequency	47 63 Hz	Sound pressure level (1m)	68	dB
Rated current (LO)	134.00 A	Power loss	1.2	22 kW
Rated current (HO)	112.00 A	Filter class (integrated)	Un	filtered
Output		Ambior		
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air coolin	g using an integrated fan
Rated power IEC 400V (LO)	75.00 kW		0.452	
Rated power NEC 480V (LO)	75.00 hp	Cooling air requirement		/s (5.403 ft³/s)
Rated power IEC 400V (HO)	55.00 kW	Installation altitude	1000 m (:	3280.84 ft)
Rated power NEC 480V (HO)	60.00 hp	Ambient temperature		
Rated current (LO)	136.00 A	Operation		°C (-4 104 °F)
Rated current (HO)	103.00 A	Transport		°C (-40 158 °F)
Rated current (IN)	136.00 A	Storage	-40 70	°C (-40 158 °F)
Max. output current	206.00 A	Relative humidity		
Pulse frequency	2 kHz	Max. operation	95 % RH,	condensation not permitted
Output frequency for vector control	0 240 Hz			
		Closed-loop control techniques		
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 300 s cycle time		Torque control, with encoder		No

300 s cycle time



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		Figure si		
Mechanical data		Com	Communication	
egree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP	
Size	FSF	Connections		
Net weight	57.50 kg (126.77 lb)	Signal cable		
Width	305 mm (12.01 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 1	
Height	708 mm (27.87 in)	Line side		
Depth	357 mm (14.06 in)	Version	screw-type terminal	
Inputs / outputs		Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG	
tandard digital inputs		Motor end		
Number	6	Version	Screw-type terminals	
Switching level: 0→1	11 V	Conductor cross-section	35.00 120.00 mm² (AWG 2 AWC	
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	35.00 120.00 mm ² (AWG 2 AWG	
Number	1	Line length, max.	10 m (32.81 ft)	
igital outputs		PE connection		
Number as relay changeover contact	1	Max. motor cable length	Screw-type terminals	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	300 m (984.25 ft)	
Number as transistor	1	Unshielded	450 m (1476.38 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-Volt 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, senso	rs that can be connected. PTC KTY			

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

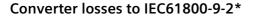


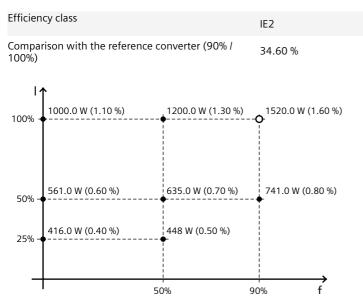
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The percentage values show the losses in relation to the rated apparent power of the converter.

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