

MLFB-Ordering data

6SL3210-1KE31-4AF1



Figure similar

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

ltem 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	23 kW
Rated current (HO)	112.00 A	Filter class (integrated)	Cla	ss A
Output		Ambior		nc
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	Cooling air requirement	0.152 m3	1- (F 402 ft31-)
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	20 40	
Rated current (IN)	136.00 A	Operation		°C (-4 104 °F)
Rated current (LO)	136.00 A	Transport		°C (-40 158 °F)
Rated current (HO)	103.00 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 o	control 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	CC)	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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Mashaning Liter		Figure sin		
Mechanical data		Communication		
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP	
Size	FSF	Connections		
Net weight	63.50 kg (139.99 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 / out	tputs	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 AWG	
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 mm² (AWG 2 AWG	
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		
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 $\pm 5~^\circ\mathrm{C}$



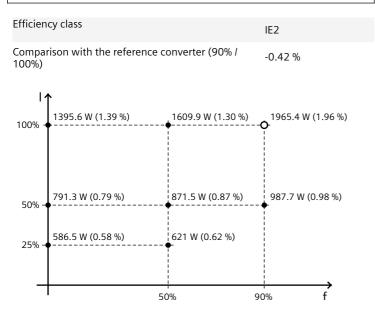
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Figure similar

Converter losses to EN 50598-2*



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 EN 50598) 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