

MLFB-Ordering data

6SL3210-1KE12-3AF2



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
nput		Power factor λ	0.70	0 0.85
Number of phases	3 AC	Offset factor cos φ	0.9	5
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.92	7
Line frequency	47 63 Hz	Sound pressure level (1m)	49 0	dB
Rated current (LO)	2.90 A	Power loss	0.04	4 kW
Rated current (HO)	2.50 A	Filter class (integrated)	Clas	ss A
Output		Ambio	nt condition	
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air cooling	using an integrated fan
Rated power IEC 400V (LO)	0.75 kW	Cooling air requirement	0.005 m3/	- (0, 177 f+3/c)
Rated power NEC 480V (LO)	1.00 hp			s (0.177 ft ³ /s)
Rated power IEC 400V (HO)	0.55 kW	Installation altitude 1000 m (3280.84 ft)		
Rated power NEC 480V (HO)	0.75 hp	Ambient temperature		
Rated current (IN)	2.30 A	Operation	-10 40 °C (14 104 °F)	
Rated current (LO)	2.20 A	Transport		°C (-40 158 °F)
Rated current (HO)	1.70 A	Storage	-40 70 °	°C (-40 158 °F)
Max. output current	3.40 A	Relative humidity		
Pulse frequency	4 kHz	Max. operation 95 % At 40 °C (104 °F), condensa and icing not permissible Closed-loop control techniques) °C (104 °F), condensation not permissible
Output frequency for vector control	0 240 Hz			niques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parameterizable Yes		•
		V/f with flux current control (F	(()	Yes
Norselland and a Hiller		V/f ECO linear / square-law	,	Yes
Overload capability		Sensorless vector control		Yes
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		Vector control, with sensor		No
		Encoderless torque control		No
High Overload (HO)		•		

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



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	•		Figure s	
Mechanical data		Com	Communication	
Degree of protection	IP20 / UL open type	Communication	nication 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 AWG 1	
Height	173 mm (6.81 in)	Line side		
Depth	160 mm (6.30 in)	Version	Plug-in screw terminals	
Inputs / outputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 1	
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 AWG 1	
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 AWG 1	
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	On housing with with screw	
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	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-Vol Directive 2006/95/EC	
witching threshold as digital inp	but			
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 $\pm 5~^\circ\mathrm{C}$



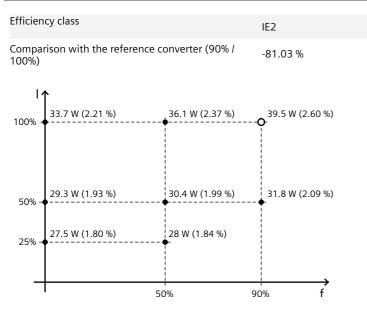
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Figure similar

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