

MLFB-Ordering data

6SL3210-1KE14-3AF2



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated da	ata	General tech. specifications			
nput		Power factor λ	0.70 0.85		
Number of phases	3 AC	Offset factor cos φ	0.95		
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97		
Line frequency	47 63 Hz	Sound pressure level (1m)	49 dB		
Rated current (LO)	5.50 A	Power loss	0.06 kW		
Rated current (HO)	4.50 A	Filter class (integrated)	Class A		
Dutput		Amhia			
Number of phases	3 AC	Ambient conditions			
Rated voltage	400 V	Cooling	Air cooling using an	integrated fa	
Rated power IEC 400V (LO)	1.50 kW				
Rated power NEC 480V (LO)	2.00 hp	Cooling air requirement	0.005 m³/s (0.177 ft³/s)		
Rated power IEC 400V (HO)	1.10 kW	Installation altitude	1000 m (3280.84 ft)		
Rated power NEC 480V (HO)	1.50 hp	Ambient temperature			
Rated current (IN)	4.30 A	Operation	-10 40 °C (14 104 °F)		
Rated current (LO)	4.10 A	Transport	-40 70 °C (-40 158 °F)		
Rated current (HO)	3.10 A	Storage	-40 70 °C (-40 158 °F)		
Max. output current	6.20 A	Relative humidity			
Pulse frequency	4 kHz	95 % At 40 °C (104 °F), co Max. operation and icing not permissible			
	0		and leng not permissible		
Output frequency for vector control	0 240 Hz	Closed-loop	control techniques	ntrol techniques	
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parameterizable Yes			
		V/f with flux current control (F	C 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



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		7	Figure	
Mechanical data		Cor	Communication	
Degree of protection	IP20 / UL open type	Communication	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	178 mm (7.01 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 mm ² (AWG 18 AWG 1	
Number	1	Line length, max.	15 m (49.21 ft)	
igital outputs				
Number as relay changeover contact	1	PE connection Max. motor cable length	On housing with M4 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)

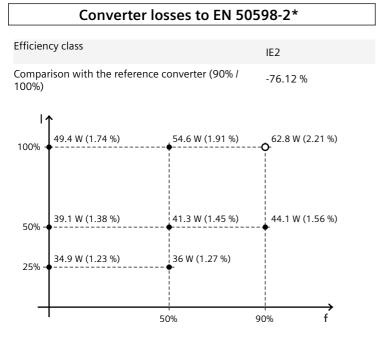
PTC/ KTY interface

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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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



Figure similar