

MLFB-Ordering data

6SL3210-1KE21-7AP1



Figure similar

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

ltem no. :
Consignment no. :
Proiect :

Rated data		General tech. specifications			
Input		Power factor λ	0.7	0 0.85	
Number of phases	3 AC	Offset factor cos φ	0.9		
Line voltage	380 480 V +10 % -20 %		0.9		
Line frequency	47 63 Hz	Efficiency η			
Rated current (LO)	21.50 A	Sound pressure level (1m)	63		
Rated current (HO)	18.20 A	Power loss	0.2	4 kW	
Output	10.20 //	Filter class (integrated)	Clas	ss A	
Number of phases	3 AC	Ambient conditions			
Rated voltage	400 V	Cooling	Air cooling	using an integrated fan	
Rated power IEC 400V (LO)	7.50 kW	Cooling	Air cooling using an integrated fan		
Rated power NEC 480V (LO)	10.00 hp	Cooling air requirement	0.009 m³/	s (0.318 ft³/s)	
Rated power IEC 400V (HO)	5.50 kW	Installation altitude	1000 m (3	3280.84 ft)	
Rated power NEC 480V (HO)	7.50 hp	Ambient temperature			
	·	Operation	-10 40 °	°C (14 104 °F)	
Rated current (IN)	17.00 A	Transport	-40 70 ^c	°C (-40 158 °F)	
Rated current (LO)	16.50 A	Storage	-40 70 °	°C (-40 158 °F)	
Rated current (HO)	12.50 A	Relative humidity			
Max. output current	25.00 A			At 40 °C (104 °F), condensation	
Pulse frequency	4 kHz	Max. operation	and icing not permissible		
Output frequency for vector control	0 240 Hz				
		Closed-loop co	ntrol tech	nniques	
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parameterizable		Yes	
		V/f with flux current control (FCC)	Yes	
		V/f ECO linear / square-law		Yes	

Overload capability

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

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

V/f linear / square-law / parameterizable	Yes	
V/f with flux current control (FCC)	Yes	
V/f ECO linear / square-law	Yes	
Sensorless vector control	Yes	
Vector control, with sensor	No	
Encoderless torque control	No	
Torque control, with encoder	No	



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Figure similar

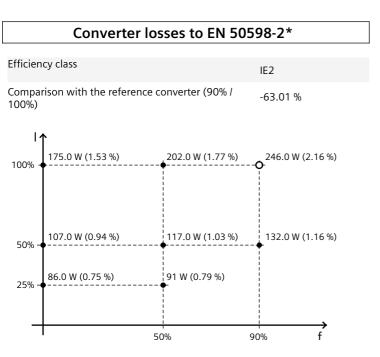
Mechanical data		Figure similar Communication		
Degree of protection	IP20 / UL open type	Communication	PROFIBUS DP	
Size	FSB	Connections		
Net weight	2.30 kg (5.07 lb)	Signal cable		
Width	100 mm (3.94 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Height	196 mm (7.72 in)	Line side		
Depth	203 mm (7.99 in)	Version	Plug-in screw terminals	
Inputs / out	puts	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10)	
Standard digital inputs		Motor end		
Number	6	Version	Plug-in screw terminals	
Switching level: 0→1	11 V	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10)	
Switching level: 1→0	5 V	DC link (for braking resistor)	1	
Max. inrush current	15 mA	Version	Plug-in screw terminals	
Fail-safe digital inputs		Conductor cross-section	4.00 6.00 mm ² (AWG 12 AWG 10)	
Number	1	Line length, max.	15 m (49.21 ft)	
Digital outputs		PE connection	On housing with M4 screw	
Number as relay changeover contact	1	Max. motor cable length	of flousing with wir screw	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)	
Number as transistor	1	Unshielded	150 m (492.13 ft)	
Output (resistive load)	DC 30 V, 0.5 A	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-Voltage Directive 2006/95/EC	
Switching threshold as digital input				
0→1	4 V			
1→0	1.6 V			
Analog outputs				
Number	1 (Non-isolated output)			
PTC/ KTY interface				
1 motor temperature sensor input sensor	rs that can be connected. DTC VTV			

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



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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