

MLFB-Ordering data

6SL3210-1KE21-7AP1



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General tec	General tech. specifications	
Input		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)	63 dB	
Rated current (LO)	21.50 A	Power loss	0.24 kW	
Rated current (HO)	18.20 A	Ambient conditions		
Output		Ambien		
Number of phases	3 AC	Cooling	Air cooling using an integrated fan	
Rated voltage	400 V			
Rated power IEC 400V (LO)	7.50 kW	Cooling air requirement	0.009 m³/s (0.318 ft³/s)	
Rated power NEC 480V (LO)	10.00 hp	Installation altitude	1000 m (3280.84 ft)	
Rated power IEC 400V (HO)	5.50 kW	Ambient temperature		
Rated power NEC 480V (HO)	7.50 hp	Operation	-10 40 °C (14 104 °F)	
Rated current (IN)	17.00 A	Transport	-40 70 °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	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
Pulse frequency	4.000 kHz			
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	CC) Yes	
		V/f ECO linear / square-law	Yes	
Overload capability		Sensorless vector control	Yes	
Low Overload (LO)		Vector control, with sensor	No	
150 % base load current IL for 3 s, followed by 7 300 s cycle time	110 % base load current IL for 57 s in a	Encoderless torque control	No	
High Overload (HO)		Torque control, with encoder	No	
200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time		Communication		

Communication

PROFIBUS DP



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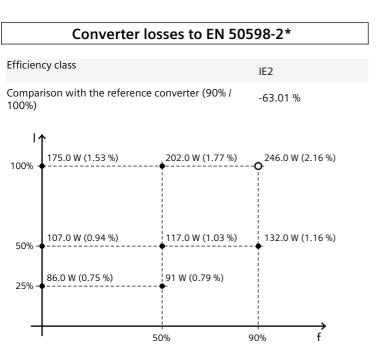
Figure similar

Marchanisal data		C-	Fig
Mechanical data		Connections	
Degree of protection	IP20 / UL open type	Signal cable	
Size	FSB	Conductor cross-section	0.15 1.50 mm² (AWG 24 AW
Net weight	2.30 kg (5.07 lb)	Line side	
Width	100 mm (3.94 in)	Version	Plug-in screw terminals
Height	196 mm (7.72 in)	Conductor cross-section	4.00 6.00 mm² (AWG 12 AW
Depth	203 mm (7.99 in)	Motor end	
Inputs / out	puts	Version	Plug-in screw terminals
itandard digital inputs		Conductor cross-section	4.00 6.00 mm² (AWG 12 AW
Number	6	DC link (for braking resistor))
Switching level: 0→1	11 V	Version	Plug-in screw terminals
Switching level: 1→0	5 V	Conductor cross-section	4.00 6.00 mm² (AWG 12 AW
Max. inrush current	15 mA	Line length, max.	15 m (49.21 ft)
ail-safe digital inputs		PE connection	On housing with M4 screw
Number	1	Max. motor cable length	
Digital outputs		Shielded	150 m (492.13 ft)
Number as relay changeover contact	1	Unshielded	150 m (492.13 ft)
Output (resistive load)	DC 30 V, 0.5 A	S	tandards
Number as transistor	1	Compliance with standards	UL, cUL, CE, C-Tick (RCM)
Output (resistive load)	DC 30 V, 0.5 A		
Analog / digital inputs		CE marking	EMC Directive 2004/108/EC, Low- Directive 2006/95/EC
Number	1 (Differential input)		
Resolution	10 bit		
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, sensor and Thermo-Click, accuracy ±5 °C	rs that can be connected: PTC, KTY		



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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