

MLFB-Ordering data

6SL3210-1KE17-5UF1



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General teo	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)	52 dB	
Rated current (LO)	9.50 A	Power loss	0.14 kW	
Rated current (HO)	8.20 A	Filter class (integrated)	Unfiltered	
Output		Ambio	nt conditions	
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air cooling using an integrated fan	
Rated power IEC 400V (LO)	3.00 kW		/ /	
Rated power NEC 480V (LO)	4.00 hp	Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Rated power IEC 400V (HO)	2.20 kW	Installation altitude	1000 m (3280.84 ft)	
Rated power NEC 480V (HO)	3.00 hp	Ambient temperature		
Rated current (IN)	7.50 A	Operation	-10 40 °C (14 104 °F)	
Rated current (LO)	7.30 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (HO)	5.60 A	Storage	-40 70 °C (-40 158 °F)	
Max. output current	11.20 A	Relative humidity		
		Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
Pulse frequency	4 kHz			
Output frequency for vector control	0 240 Hz	Closed-loop control techniques		
Output frequency for \//f control	0 550 Hz			
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parame	eterizable 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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Mechanical data		Figure sim	
Degree of protection IP20 / UL open type		Communication	PROFINET, EtherNet/IP
Size	FSA	Co	nnections
Net weight	1.70 kg (3.75 lb)	Signal cable	
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 1
Height	196 mm (7.72 in)	Line side	
Depth	208 mm (8.19 in)	Version	Plug-in screw terminals
Inputs / out	tputs	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14
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 14
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 14
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 M4 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	S	tandards
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, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\mathrm{C}$



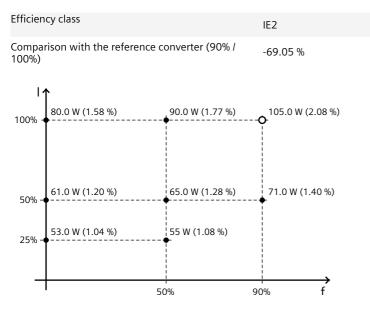
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Converter losses to EN 50598-2*



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