

MLFB-Ordering data

6SL3210-1KE17-5AP1



Figure similar

Client order no. :	
Order no. :	
Offer no. :	
Pomarke ·	

ltem no. :
Consignment no. :
Project :

Rated data		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)	Class A
Output		Ambia	
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 (LO)	7.30 A	Operation	-10 40 °C (14 104 °F)
Rated current (HO)	5.60 A	Transport	-40 70 °C (-40 158 °F)
Rated current (IN)	7.50 A	Storage	-40 70 °C (-40 158 °F)
		Relative humidity	
Max. output current	11.20 A		95 % 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	control techniques

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 similar Communication	
Degree of protection	IP20 / UL open type	Communication	PROFIBUS DP
Size	FSA	Co	onnections
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 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	1.00 2.50 mm² (AWG 18 AWG 14)
Standard 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
Fail-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	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	150 m (492.13 ft)
Output (resistive load)	DC 30 V, 0.5 A	S	tandards
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-Voltag Directive 2006/95/EC
Switching threshold as digital in	put		
0→1	4 V		
1→0	1.6 V		
Analog outputs			
Number	1 (Non-isolated output)		
PTC/ KTY interface			
1 motor temperature sensor input senso	rs that can be connected. BTC VT	v	

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



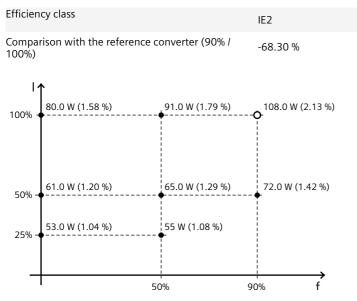
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Converter losses to EN 50598-2*



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