

MLFB-Ordering data

6SL3210-1KE18-8UB1



Figure similar

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

ltem no. :
Consignment no. :
Project ·

Rated data		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)	52 d	3
Rated current (LO)	11.40 A	Power loss	0.15	kW
Rated current (HO)	10.60 A	Filter class (integrated)	Unfil	tered
utput				
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air cooling	using an integrated fan
Rated power IEC 400V (LO)	4.00 kW			
Rated power NEC 480V (LO)	5.00 hp	Cooling air requirement0.005 m³/s (0.177 ft³/s)		(0.177 ft³/s)
Rated power IEC 400V (HO)	3.00 kW	Installation altitude 1000 m (3280.84 ft)		80.84 ft)
Rated power NEC 480V (HO)	4.00 hp	Ambient temperature		
Rated current (LO)	8.80 A	Operation	-10 40 °C	: (14 104 °F)
Rated current (HO)	7.30 A	Transport -40 70 °C (-40 158 °F) Storage -40 70 °C (-40 158 °F)		: (-40 158 °F)
Rated current (IN)	9.00 A			: (-40 158 °F)
		Relative humidity		
Max. output current	14.60 A		95 % At 40 °C (104 °F), condensatior and icing not permissible	
Pulse frequency	4 kHz	Max. operation		
Output frequency for vector control	0 240 Hz			
Output frequency for V/f control	0 550 Hz	Closed-loop control techniques		niques
		V/f linear / square-law / paramet	erizable	Yes
		V/f with flux current control (FC	C)	Yes
verleed conchility		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 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		Com	Communication	
Degree of protection	IP20 / UL open type	Communication	USS/MODBUS RTU	
Size	FSA	Connections		
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	of housing with MH 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-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				

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



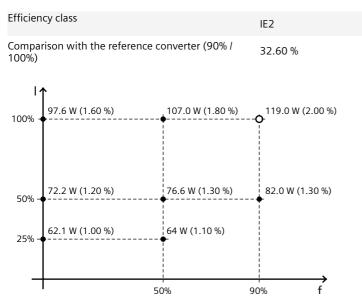
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Figure similar

Converter losses to IEC61800-9-2*



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 IEC61800-9-2) 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