

MLFB-Ordering data

6SL3210-1KE12-3UF2

Figure similar

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

Item 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)	49 dB	
Rated current (LO)	2.90 A	Power loss	0.04 kW	
Rated current (HO)	2.50 A	Filter class (integrated)	Unfiltered	
Dutput		Ambion	at conditions	
Number of phases	3 AC	Ambien	nt conditions	
Rated voltage	400 V	Cooling	Air cooling using an integrated fan	
Rated power IEC 400V (LO)	0.75 kW		0.005 31 (0.477 (31.)	
Rated power NEC 480V (LO)	1.00 hp	Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Rated power IEC 400V (HO)	0.55 kW	Installation altitude	1000 m (3280.84 ft)	
Rated power NEC 480V (HO)	0.75 hp	Ambient temperature		
Rated current (IN)	2.30 A	Operation	-10 40 °C (14 104 °F)	
Rated current (LO)	2.20 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (HO)	1.70 A	Storage	-40 70 °C (-40 158 °F)	
Max. output current	3.40 A	Relative humidity		
Pulse frequency	4 kHz	Max. operation	95 % At 40 °C (104 °F), condensatio and icing not permissible	
Output frequency for vector control	0 240 Hz			
	0 2 10 112	Closed-loop c	ntrol techniques	
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramet	terizable Yes	
		V/f with flux current control (FC	C) Yes	
Overload capability		V/f ECO linear / square-law	Yes	
Low Overload (LO)		Sensorless vector control	Yes	
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Vector control, with sensor	No	
		Encoderless torque control	No	

Torque control, with encoder

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

No



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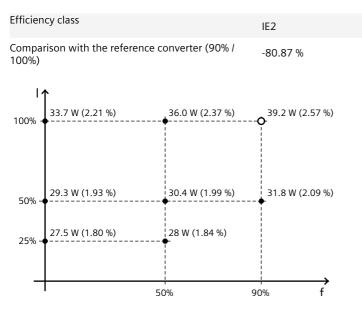
· · · · · · · · · · · · · · · · · · ·		Figure similar	
Mechanical data		Com	munication
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP
Size	FSAA	Connections	
Net weight	1.40 kg (3.09 lb)	Signal cable	
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
Height	173 mm (6.81 in)	Line side	
Depth	160 mm (6.30 in)	Version	Plug-in screw terminals
Inputs / outputs		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 mm² (AWG 18 AWG 14)
Number	1	Line length, max.	15 m (49.21 ft)
Digital outputs			
Number as relay changeover contact	1	PE connection 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	100 m (328.08 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, senso and Thermo-Click, accuracy ±5 °C	rs that can be connected: PTC, KTY		



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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

No image available for this configuration.

Figure similar