

MLFB-Ordering data

6SL3210-1KE12-3UF2



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated da	General tech. specifications			
Input		Power factor λ	0.70 0.85	
Number of phases	3 AC	Offset factor cos φ	0.9	5
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	7
Line frequency	47 63 Hz	Sound pressure level (1m)	49 (дв
Rated current (LO)	2.90 A	Power loss	0.04	4 kW
Rated current (HO)	2.50 A	Filter class (integrated)	Unf	iltered
Dutput		Ambio	nt condition	26
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air cooling	g using an integrated far
Rated power IEC 400V (LO)	0.75 kW			
Rated power NEC 480V (LO)	1.00 hp	Cooling air requirement		s (0.177 ft³/s)
Rated power IEC 400V (HO)	0.55 kW	Installation altitude	1000 m (3	280.84 ft)
Rated power NEC 480V (HO)	0.75 hp	Ambient temperature		
Rated current (LO)	2.20 A	Operation	-10 40 °	°C (14 104 °F)
Rated current (HO)	1.70 A	Transport	-40 70 °	°C (-40 158 °F)
Rated current (IN)	2.30 A	Storage	-40 70 °	°C (-40 158 °F)
Max. output current	3.40 A	Relative humidity		
Pulse frequency	4 kHz	95 % At 40 °C (104 °F), cor Max. operation and icing not permissible		
Output frequency for vector control	0 240 Hz		5	
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 / parameterizable Ye		Yes
		V/f with flux current control (F	CC)	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
High Overland (HO)				

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

Torque control, with encoder

No



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Figure similar

Marchand alas		Figure simil:			
Mechanical data		Corr	Communication		
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		PE connection	On housing with M4 screw		
Number as relay changeover contact	1	Max. motor cable length	Of 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-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, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\mathrm{C}$



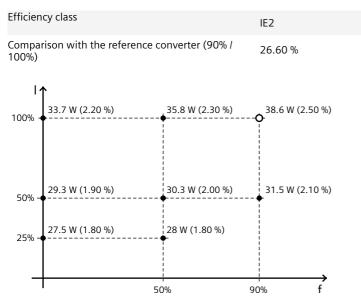
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Figure similar

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