

MLFB-Ordering data

6SL3210-1KE12-3UB2



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated da	General tech. specifications				
Input		Power factor λ	0.7	0 0.85	
Number of phases	3 AC	Offset factor $\cos \phi$	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	49 dB	
Rated current (LO)	2.90 A	Power loss	0.0	0.04 kW	
Rated current (HO)	2.50 A	Ambient conditions			
Output		Cooling	Air coolin	, using an interacted for	
Number of phases	3 AC	Cooling	Air cooling	g using an integrated fan	
Rated voltage	400 V	Cooling air requirement	0.005 m³/	0.005 m³/s	
Rated power (LO)	0.75 kW	Installation altitude	1000 m	1000 m	
Rated power (HO)	0.55 kW	Ambient temperature			
Rated current (IN)	2.30 A	Operation	-10 40	-10 40 °C (14 104 °F)	
Rated current (LO)	2.20 A	Transport	-40 70	-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	4.000 kHz	95 % At 40 °C (104 °F), Max. operation and icing not permissib		0 °C (104 °F), condensation	
Output frequency for vector control	0 240 Hz			not permissible	
Output frequency for V/f control	0 550 Hz	Closed-loop control techniques			
		V/f linear / square-law / parame	terizable	Yes	
		V/f with flux current control (FC	:C)	Yes	
		V/f ECO linear / square-law		Yes	
Overload capability		Sensorless vector control		Yes	
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		Vector control, with sensor		No	
		Encoderless torque control		No	
High Overload (HO)		Torque control, with encoder		No	
200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time		Communication			
		Communication	RS485		



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Mechanical data		Connections		
Degree of protection	IP20 / UL open type	Signal cable		
Size	FSAA	Conductor cross-section	0.15 1.50 mm² (24 16 AWG)	
Net weight	1.40 kg	Line side		
Width	73.0 mm	Version	Plug-in screw terminals	
Height	173.0 mm	Conductor cross-section	1.00 2.50 mm² (18 14 AWG)	
Depth	155.0 mm	Motor end		
Inputs	/ outputs	Version	Plug-in screw terminals	
tandard digital inputs		Conductor cross-section	1.00 2.50 mm² (18 14 AWG)	
Number	6	DC link (for braking resistor)		
Switching level: 0→1	11 V	Version	Plug-in screw terminals	
Switching level: 1→0	5 V	Conductor cross-section	1.00 2.50 mm² (18 14 AWG)	
Max. inrush current	15 mA	PE connection	On housing with M4 screw	
ail-safe digital inputs		Max. motor cable length		
Number	1	Shielded	50 m	
Digital outputs		Unshielded	100 m	
Number as relay changeover con	tact 1	Converter losses to EN 50598-2*		
Output (resistive load)	DC 30 V, 0.5 A	Efficiency class	IE2	
Number as transistor	1	Comparison with the reference conver		
Output (resistive load)	DC 30 V, 0.5 A	100%)	-00.07 %	
Analog / digital inputs		I ↑		
Number	1 (Differential input)	33.7 W (2.21 %) 36.0 100%	W (2.37 %) 39.2 W (2.57 %)	
analog outputs				
Number	1 (Non-isolated output)	29.3 W (1.93 %) 30.4	W (1.99 %) 31.8 W (2.09 %)	
PTC/ KTY interface		50% -		
1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\text{C}$		25% • 27.5 W (1.80 %) 28 W	/(1.84%)	
Standards		50%	90% f	
Compliance with standards UL	., cUL, CE, C-Tick (RCM)	The percentage values show the losses in relation to the rated apparent power of the converter.		
	/C Directive 2004/108/EC, Low-Voltage rective 2006/95/EC	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