

## **MLFB-Ordering data**

6SL3210-1KE12-3UB2



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	Ambient	conditions
Output		Cooling	Air cooling using an integrated fan
Number of phases	3 AC	Cooling	Air cooling using an integrated fan
Rated voltage	400 V	Cooling air requirement	0.005 m³/s
Rated power (LO)	0.75 kW	Installation altitude	1000 m
Rated power (HO)	0.55 kW	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		95 % At 40 °C (104 °F), condensation
Output frequency for vector control	0 240 Hz	Max. operation	and icing not permissible
Output frequency for V/f control	0 550 Hz	Closed-loop control techniques	
		V/f linear / square-law / paramete	rizable Yes
		V/f with flux current control (FCC	) 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 mm <sup>2</sup> (28 16 AW
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 mm <sup>2</sup> (16 14 AW
Depth	155.0 mm	Motor end
Inputs	/ outputs	Version Plug-in screw terminals
Standard digital inputs		Conductor cross-section 1.00 2.50 mm <sup>2</sup> (16 14 AW
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 mm <sup>2</sup> (16 14 AW
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 cor	itact 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 converter (90% / -80.87 %
Output (resistive load)	DC 30 V, 0.5 A	100%)
Analog / digital inputs		I↑
Number	1 (Differential input)	33.7 W (2.21 %) 36.0 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		
1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\mathrm{C}$		25%
Standards		1 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
	MC 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 ba version of the converter without options/components.

\*calculated values; increased by 10% according to the standard