

## **MLFB-Ordering data**

6SL3210-1KE12-3UP2



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 0.85
Number of phases	3 AC	Offset factor cos φ	0.95	5
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97	,
Line frequency	47 63 Hz	Sound pressure level (1m)	49 c	В
Rated current (LO)	2.90 A	Power loss	0.04	kW
Rated current (HO)	2.50 A	Ambient conditions		
Output		Casling	Air cooling	using an integrated for
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			°C (104 °F), condensation
Output frequency for vector control	0 240 Hz	Max. operation	and icing r	ot permissible
Output frequency for V/f control	0 550 Hz	Closed-loop control techniques		
		V/f linear / square-law / paramete	erizable	Yes
		V/f with flux current control (FCC	<b>E)</b>	Yes
		V/f ECO linear / square-law		Yes
Overload capability		Sensorless vector control		Yes
Low Overload (LO)		Vector control, with sensor No		
300 s cycle time	for 3 s, followed by 110 % base load current IL for 57 s in a Encoderless torque control No		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	PROFIBUS D	)P



## **MLFB-Ordering data**

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Mecha	nical 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, and Thermo-Click, accuracy ±5 °C	sensors that can be connected: PTC, KTY	25%
Standards		1 50% 90% f
Compliance with standards U	., 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