

## **MLFB-Ordering data**

6SL3210-1KE13-2AP1



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	3.000AC	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)	52.000 dB
Rated current (LO)	4.10 A	Power loss	0.05 kW
Rated current (HO)	3.20 A	Ambient conditions	
Output			
Number of phases	3.000AC	Cooling	Air cooling using an integrated fan
Rated voltage	400 V	Cooling air requirement	0.005 m³/s
Rated power (LO)	1.10 kW	Installation altitude	1000.000 m
Rated power (HO)	0.75 kW	Ambient temperature	
Rated current (IN)	3.20 A	Operation	-10 40 °C (14 104 °F)
Rated current (LO)	3.10 A	Transport	-40 70 °C (-40 158 °F)
Rated current (HO)	2.20 A	Storage	-40 70 °C (-40 158 °F)
Max. output current	4.40 A	Relative humidity	
Pulse frequency	4 kHz	Ma	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 / paramet	t <b>erizable</b> 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	?PMD_ABY317_001_000 ?



## MLFB-Ordering data

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Mechanical data		Co	Connections	
Degree of protection	IP20 / UL open type	Signal cable		
Size	FSA	Conductor cross-section	0.15 1.50 mm² (28 16 AWG)	
Net weight	1.70 kg	Line side		
Width	73.0 mm	Version	?PMD_ACA663_001_000 ?	
Height	196.0 mm	Conductor cross-section	1.00 2.50 mm² (16 14 AWG)	
Depth	203.0 mm	Motor end		
Inputs / outputs		Version	Plug-in screw terminals	
Standard digital inputs		Conductor cross-section	1.00 2.50 mm² (16 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 (16 14 AWG)	
Max. inrush current	15 mA	PE connection	On housing with M4 screw	
Fail-safe digital inputs		Max. motor cable length		
Number	1	Shielded	50 m	
Digital outputs		Unshielded	100 m	
Number as relay changeover contact	1	Converter los	sses to EN 50598-2*	
Output (resistive load)	DC 30 V, 1 A	Efficiency class	IE2	
	_		ILZ	

100%)

Analo	g /	digi	tal i	nputs
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Number as transistor

Output (resistive load)

Number	1 (Differential input)

DC 30 V, 1 A

## **Analog outputs**

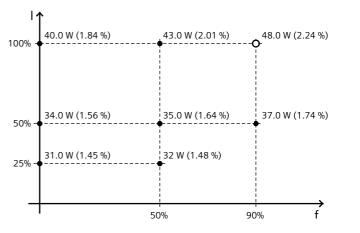
Number	1 (Non-isolated output)

## PTC/ KTY interface

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy  $\pm 5\,^{\circ}\text{C}$ 

Standards		
Compliance with standards	UL, cUL, CE, C-Tick (RCM)	

CE marking	EMC Directive 2004/108/EC, Low-Voltage
	Directive 2006/95/EC



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.

Comparison with the reference converter (90% /

-76.45 %

<sup>\*</sup>calculated values; increased by 10% according to the standard