

MLFB-Ordering data

6SL3210-1KE23-8AF1



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

Item no.: Consignment no. : Project :

Rated data		General tech	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)	66 dB		
Rated current (LO)	48.20 A	Power loss	0.50 kW		
Rated current (HO)	45.20 A	Ambient conditions			
Output					
Number of phases	3 AC	Cooling	Air cooling using an integrated fan		
Rated voltage	400 V	Cooling air requirement	0.018 m³/s		
Rated power (LO)	18.50 kW	Installation altitude	1000 m		
Rated power (HO)	15.00 kW	Ambient temperature			
Rated current (IN)	38.00 A	Operation	-10 40 °C (14 104 °F)		
Rated current (LO)	37.00 A	Transport	-40 70 °C (-40 158 °F)		
Rated current (HO)	31.00 A	Storage	-40 70 °C (-40 158 °F)		
Max. output current	62.00 A	Relative humidity			
Pulse frequency	4 kHz	May anaustian	95 % At 40 °C (104 °F), condensatio		
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	erizable 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)	110 W base lead current II for E7 s in a	Vector control, with sensor	No		
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		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	PROFINET		



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Analog outputs

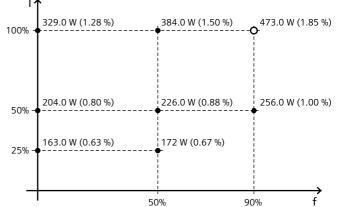
Number

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Mechanical data		Co	Connections	
Degree of protection	IP20 / UL open type	Signal cable		
Size	FSC	Conductor cross-section	0.15 1.50 mm² (28 16 AWG)	
Net weight	4.40 kg	Line side		
Width	140.0 mm	Version	Plug-in screw terminals	
Height	295.0 mm	Conductor cross-section	6.00 16.00 mm ² (10 5 AWG)	
Depth	225.0 mm	Motor end		
Inputs / outputs		Version	Plug-in screw terminals	
tandard digital inputs		Conductor cross-section	6.00 16.00 mm ² (10 5 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	6.00 16.00 mm² (10 5 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	
igital outputs		Unshielded	100 m	
Number as relay changeover contact	1	Converter losses to EN 50598-2*		
Output (resistive load)	DC 30 V, 0.5 A	Efficiency class		
Number as transistor	1	Comparison with the reference converter (90% / 100%) 1E2 -63.37 %		
Output (resistive load)	DC 30 V, 0.5 A			
nalog / digital inputs				
Number	1 (Differential input)	329.0 W (1.28 %)	\$384.0 W (1.50 %) 473.0 W (1.85 %)	



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.

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)				

1 (Non-isolated output)

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

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

^{*}calculated values; increased by 10% according to the standard