

### **MLFB-Ordering data**

6SL3210-1KE28-4AF1



Client order no. : Order no. : Offer no. : Remarks : Item no. : Consignment no. : Project :

Rated data				
nput				
Number of phases	3 AC			
Line voltage	380 480 V +10 % -20 %			
Line frequency	47 63 Hz			
Rated current (LO)	76.00 A			
Rated current (HO)	69.00 A			
Dutput				
Number of phases	3 AC			
Rated voltage	400 V			
Rated power IEC 400V (LO)	45.00 kW			
Rated power NEC 480V (LO)	50.00 hp			
Rated power IEC 400V (HO)	37.00 kW			
Rated power NEC 480V (HO)	40.00 hp			
Rated current (IN)	82.50 A			
Rated current (LO)	82.50 A			
Rated current (HO)	68.00 A			
Max. output current	136.00 A			
Pulse frequency	4.000 kHz			
Output frequency for vector control	0 240 Hz			
Output frequency for V/f control	0 550 Hz			

Overload capability
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### 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

#### High Overload (HO)

 $200\,\%$  base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time

General tech. specifications			
Power factor λ	0.90 0.95		
Offset factor cos φ	0.99		
Efficiency η	0.98		
Sound pressure level (1m)	72 dB		
Power loss	1.02 kW		
Filter class (integrated)	Class A		

Ambient conditions			
Cooling	Air cooling using an integrated fan		
Cooling air requirement	0.055 m³/s (1.942 ft³/s)		
Installation altitude	1000 m (3280.84 ft)		
Ambient temperature			
Operation	-20 40 °C (-4 104 °F)		
Transport	-40 70 °C (-40 158 °F)		
Storage	-40 70 °C (-40 158 °F)		
Relative humidity			

# Max. operation 95 % RH, condensation not permitted

Closed-loop control techniques		
Yes		
No		
No		
No		
	Yes Yes Yes Yes No No	



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			Figure simila
Mechanical	Mechanical data Communic		munication
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP
Size	FSD	Connections	
Net weight	19.50 kg (42.99 lb)	Signal cable	
Width	200 mm (7.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
Height	472 mm (18.58 in)	Line side	
Depth	237 mm (9.33 in)	Version	screw-type terminal
Inputs / out	tputs	Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)
Standard digital inputs		Motor end	
Number	6	Version	Screw-type terminals
Switching level: 0→1	11 V	Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)
Switching level: 1→0	5 V	DC link (for braking resistor)	
Max. inrush current	15 mA	Version	Screw-type terminals
Fail-safe digital inputs		Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)
Number	1	Line length, max.	10 m (32.81 ft)
Digital outputs		PE connection	Screw-type terminals
Number as relay changeover contact	1	Max. motor cable length	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	200 m (656.17 ft)
Number as transistor	1	Unshielded	300 m (984.25 ft)
Output (resistive load)	DC 30 V, 0.5 A	S	tandards
Analog / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick (RCM)
Number	1 (Differential input)		
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC
Switching threshold as digital in	put		
0→1	4 V		
1→0	1.6 V		
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  $\pm 5~^{\circ}\text{C}$ 



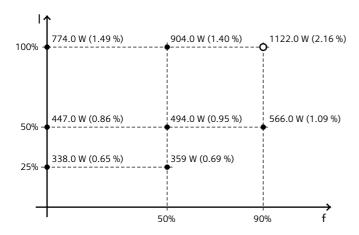
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### Converter losses to EN 50598-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-54.91 %



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.

<sup>\*</sup>converted values