

## **MLFB-Ordering data**

6SL3210-1KE27-0AF1



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

Item no. :
Consignment no.
Project :

Remarks :	PI	oject :			
Rated data		General tech. specifications			
Input		Power factor λ	0.90 .	0.95	
Number of phases	3 AC	Offset factor cos φ	0.99		
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.98		
Line frequency	47 63 Hz	Sound pressure level (1m)	72 dB		
Rated current (LO)	64.00 A	Power loss	1.02	kW	
Rated current (HO)	61.00 A	Filter class (integrated)	Class	A	
Output		Ambient	conditions		
Number of phases	3 AC	Ambient	Conditions	1	
Rated voltage	400 V	Cooling	Air cooling ι	using an integrated far	า
Rated power IEC 400V (LO)	37.00 kW		0.055 31.4	(4.0.4.2.5)21.)	
Rated power NEC 480V (LO)	40.00 hp	Cooling air requirement	0.055 m³/s (		
Rated power IEC 400V (HO)	30.00 kW	Installation altitude	1000 m (328	80.84 ft)	
Rated power NEC 480V (HO)	30.00 hp	Ambient temperature			
Rated current (IN)	68.00 A	Operation		(-4 104 °F)	
Rated current (LO)	68.00 A	Transport		(-40 158 °F)	
Rated current (HO)	58.00 A	Storage	-40 70 °C	(-40 158 °F)	
Max. output current	116.00 A	Relative humidity			
Pulse frequency	4 kHz	Max. operation 95 % RH, condensation not		ndensation not permit	tted
Output frequency for vector control	0 240 Hz				
output frequency for vector control		Closed-loop control techniques			
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramete	rizable	Yes	
		V/f with flux current control (FCC	)	Yes	
Overload capability		V/f ECO linear / square-law		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		Sensorless vector control		Yes	
		Vector control, with sensor		No	
		Encoderless torque control		No	
High Overload (HO)  200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a		Torque control, with encoder		No	

300 s cycle time



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			Fig
Mechanical	data	Com	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
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 AW
tandard 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 AW
Switching level: 1→0	5 V	DC link (for braking resistor)	)
Max. inrush current	15 mA	Version	Screw-type terminals
ail-safe digital inputs		Conductor cross-section	10.00 35.00 mm² (AWG 8 AW
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	Standards	
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-Vo 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  $\pm 5~^\circ\text{C}$ 



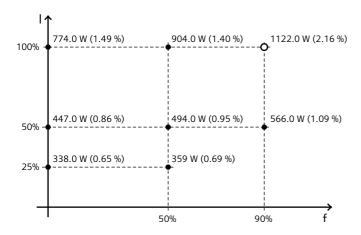
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## Converter losses to EN 50598-2\*

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.

\*converted values