

MLFB-Ordering data

6SL3210-1KE28-4AF1



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

kemarks :				
Rated data				
Input				
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			
Output				
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 kHz			
Output frequency for vector control	0 240 Hz			
Output frequency for V/f control	0 550 Hz			

Overload ca	pability
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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			
	0.00		
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				

Closed-loop control techniques			
V/f linear / square-law / parameterizable	Yes		
V/f with flux current control (FCC)	Yes		
V/f ECO linear / square-law	Yes		
Sensorless vector control	Yes		
Vector control, with sensor	No		
Encoderless torque control	No		
Torque control, with encoder	No		

Max. operation

95 % RH, condensation not permitted



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Mechanical	data	Co	
egree of protection	IP20 / UL open type	Communication	
Size	FSD	Connections	
Net weight	19.50 kg (42.99 lb)	Signal cable	
Vidth	200 mm (7.87 in)	Conductor cross-section	
leight	472 mm (18.58 in)	Line side	
epth	237 mm (9.33 in)	Version	
Inputs / out	tputs	Conductor cross-section	
tandard digital inputs		Motor end	
umber	6	Version	
vitching level: 0→1	11 V	Conductor cross-section	
witching level: 1→0	5 V	DC link (for braking resisto	
ax. inrush current	15 mA	Version	
il-safe digital inputs		Conductor cross-section	
lumber	1	Line length, max.	
ital outputs		PE connection	
umber as relay changeover contact	1	Max. motor cable length	
utput (resistive load)	DC 30 V, 0.5 A	Shielded	
lumber as transistor	1	Unshielded	
utput (resistive load)	DC 30 V, 0.5 A	9	
alog / digital inputs	•		
lumber	1 (Differential input)	Compliance with standards	
esolution	10 bit	CE marking	
vitching threshold as digital in	put		
)→1	4 V		
→0	1.6 V		

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PTC/ KTY interface

Analog outputs

Number

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

1 (Non-isolated output)



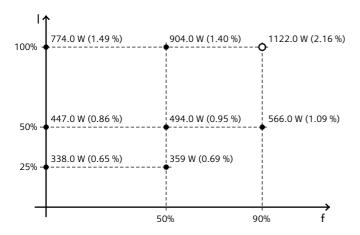
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Converter losses to EN 50598-2*

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