

MLFB-Ordering data

6SL3210-1KE21-7UP1

No image available for this configuration.

Figure similar

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

Item no. :
Consignment no. :
Project :

Rated d		
nput		Power factor λ
Number of phases	3 AC	Offset factor cos
Line voltage	380 480 V +10 % -20 %	Efficiency η
Line frequency	47 63 Hz	Sound pressure
Rated current (LO)	21.50 A	Power loss
Rated current (HO)	18.20 A	Filter class (integ
Output		_
Number of phases	3 AC	
Rated voltage	400 V	Cooling
Rated power IEC 400V (LO)	7.50 kW	Cooling air requ
Rated power NEC 480V (LO)	10.00 hp	Installation altit
Rated power IEC 400V (HO)	5.50 kW	
Rated power NEC 480V (HO)	7.50 hp	Ambient temper Operation
Rated current (IN)	17.00 A	
Rated current (LO)	16.50 A	Transport
Rated current (HO)	12.50 A	Storage Relative humidit
Max. output current	25.00 A	neiauve numum
Pulse frequency	4 kHz	Max. operation
Output frequency for vector control	0 240 Hz	
		Cl
Output frequency for V/f control	0 550 Hz	V/f linear / squar
		Mit del. 10
		V/f with flux cur

Overload capability

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	0.70 0.85			
Offset factor cos φ	0.95			
Efficiency η	0.97			
Sound pressure level (1m)	63 dB			
Power loss	0.24 kW			
Filter class (integrated)	Unfiltered			

Ambient conditions				
Cooling	Air cooling using an integrated fan			
Cooling air requirement	0.009 m³/s (0.318 ft³/s)			
Installation altitude	1000 m (3280.84 ft)			
Ambient temperature				
Operation	-10 40 °C (14 104 °F)			
Transport	-40 70 °C (-40 158 °F)			
Storage	-40 70 °C (-40 158 °F)			
Relative humidity				

95 % At 40 °C (104 °F), condensation and icing not permissible

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			



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-			Figure simila
Mechanical	data	Com	munication
Degree of protection	IP20 / UL open type	Communication	PROFIBUS DP
Size	FSB	Connections	
Net weight	2.30 kg (5.07 lb)	Signal cable	
Width	100 mm (3.94 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
Height	196 mm (7.72 in)	Line side	
Depth	203 mm (7.99 in)	Version	Plug-in screw terminals
Inputs / out	tputs	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10)
Standard digital inputs		Motor end	
Number	6	Version	Plug-in screw terminals
Switching level: 0→1	11 V	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10)
Switching level: 1→0	5 V	DC link (for braking resistor))
Max. inrush current	15 mA	Version	Plug-in screw terminals
Fail-safe digital inputs		Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10)
Number	1	Line length, max.	15 m (49.21 ft)
Digital outputs			
Number as relay changeover contact	1	PE connection Max. motor cable length	On housing with M4 screw
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)
Number as transistor	1	Unshielded	150 m (492.13 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-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



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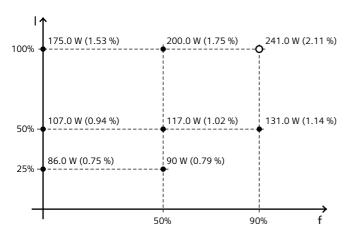
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Converter losses to EN 50598-2*

Efficiency class IE2

Comparison with the reference converter (90% / 100%)

-63.87 %



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.

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Figure similar

^{*}converted values