

MLFB-Ordering data

6SL3210-1KE11-8AP1



Figure similar

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)	2.30 A	
Rated current (HO)	1.90 A	
Output		
Number of phases	3 AC	
Rated voltage	400 V	
Rated power IEC 400V (LO)	0.55 kW	
Rated power NEC 480V (LO)	0.75 hp	
Rated power IEC 400V (HO)	0.37 kW	
Rated power NEC 480V (HO)	0.50 hp	
Rated current (LO)	1.70 A	
Rated current (HO)	1.30 A	
Rated current (IN)	1.80 A	
Max. output current	2.60 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 240 Hz	
Output frequency for V/f control	0 550 Hz	

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Pulse frequency	4 kHz	
Output frequency for vector control	0 240 Hz	Γ
Output frequency for V/f control	0 550 Hz	
Overload capability		
Low Overload (LO)		
150 % base load current IL for 3 s, followed by 300 s cycle time	110 % base load current IL for 57 s ir	n a

Overload capability	
Low Overload (LO)	

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)	52 dB	
Power loss	0.04 kW	
Filter class (integrated)	Class A	

Ambient conditions		
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.005 m³/s (0.177 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		

Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible
	and lang not permissione

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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			Figu	
Mechanical data		Com	Communication	
egree of protection	IP20 / UL open type	Communication	PROFIBUS DP	
Size	FSA	Connections		
Net weight	1.70 kg (3.75 lb)	Signal cable		
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG	
Height	196 mm (7.72 in)	Line side		
Depth	203 mm (7.99 in)	Version	Plug-in screw terminals	
Inputs / out	puts	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG	
tandard digital inputs		Motor end		
Number	6	Version	Plug-in screw terminals	
Switching level: 0→1	11 V	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG	
Switching level: 1→0	5 V	DC link (for braking resistor))	
Max. inrush current	15 mA	Version	Plug-in screw terminals	
ail-safe digital inputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG	
Number	1		15 m (49.21 ft)	
igital outputs		Line length, max.		
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		tandards	
	DC 30 V, 0.3 A		tanuarus	
nalog / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Number Resolution	1 (Differential input) 10 bit	CE marking	EMC Directive 2004/108/EC, Low-V Directive 2006/95/EC	
witching threshold as digital inț	out			
0→1	4 V			
1→0	1.6 V			

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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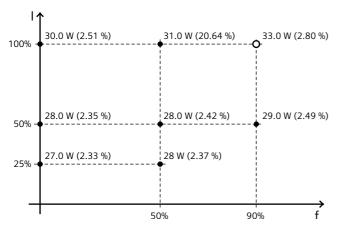
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-78.80 %



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