

MLFB-Ordering data

6SL3210-1KE21-7UF1



Figure similar

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

Item no.: Consignment no. : Project :

Remarks :				
Rated da	ıta		General ted	ch. specifications
Input			Power factor λ	0.70 0.85
Number of phases	3 AC		Offset factor cos φ	0.95
Line voltage	380 480 V +10 % -20 %		Efficiency η	0.97
Line frequency	47 63 Hz		Sound pressure level (1m) 63 dB	
Rated current (LO)	21.50 A		Power loss	0.24 kW
Rated current (HO)	18.20 A		Filter class (integrated)	Unfiltered
Output			Ambio	nt conditions
Number of phases	3 AC		Alliblei	it conditions
Rated voltage	400V IEC	480V NEC	Cooling	Air cooling using an integrated fan
Rated power (LO)	7.50 kW	10.00 hp		
Rated power (HO)	5.50 kW	7.50 hp	Cooling air requirement	0.009 m³/s (0.318 ft³/s)
Rated current (LO)	16.50 A		Installation altitude	1000 m (3280.84 ft)
Rated current (HO)	12.50 A		Ambient temperature	
Rated current (IN)	17.00 A		Operation	-10 40 °C (14 104 °F)
Max. output current	25.00 A		Transport	-40 70 °C (-40 158 °F)
·			Storage	-40 70 °C (-40 158 °F)
Pulse frequency	4 kHz		Relative humidity	
Output frequency for vector control	0 240 Hz		Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible
Output frequency for V/f control	0 550 Hz			

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

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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Mechanica	data	Con	nmunication
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP
Size	FSB	Co	onnections
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	208 mm (8.19 in)	Version	Plug-in screw terminals
Inputs / ou	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	r)
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		PE connection	On housing with M4 screw
Number as relay changeover contact	1	Max. motor cable length	on nousing with wirescrew
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	9	Standards

Switching	threshold as	digital	input

Analog / digital inputs

Number

Resolution

0→1	4 V
1→0	1.6 V

1 (Differential input)

10 bit

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 $\pm 5\,^{\circ}\text{C}$

UL, cUL, CE, C-Tick (RCM)

Directive 2006/95/EC

EMC Directive 2004/108/EC, Low-Voltage

Compliance with standards

CE marking



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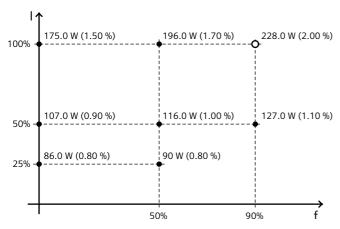
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Figure similar

Converter losses to IEC61800-9-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	36.70 %



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 IEC61800-9-2) 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