

MLFB-Ordering data

6SL3210-1KE21-7AF1



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General tech. 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)	Class A	
Dutput		_		
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling Air cooling using an integrated fa		ing an integrated fan
Rated power IEC 400V (LO)	7.50 kW			
Rated power NEC 480V (LO)	10.00 hp	Cooling air requirement	0.009 m³/s (0.318 ft³/s)	
Rated power IEC 400V (HO)	5.50 kW	Installation altitude	1000 m (3280.84 ft)	
Rated power NEC 480V (HO)	7.50 hp	Ambient temperature		
Rated current (LO)	16.50 A	Operation	-10 40 °C (14 104 °F)	
Rated current (HO)	12.50 A	Transport	-40 70 °C (-40 158 °F)	
		Storage	-40 70 °C (-40 158 °F)	
Rated current (IN)	17.00 A	Relative humidity		
Max. output current	25.00 A		95 % At 40 °C (104 °F), condensatior and icing not permissible	
Pulse frequency	4 kHz	Max. operation		
Output frequency for vector control	0 240 Hz	Closed-loop control techniques		
Output frequency for V/f control	0 550 Hz	Closed-loop co	ontrol techni	ques
		V/f linear / square-law / paramete	erizable	Yes
		V/f with flux current control (FCC	_)	Yes
Worload capability		V/f ECO linear / square-law		Yes

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

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 similar

Mechanical data		Figure simi		
	Connections			
	_			
	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16		
196 mm (7.72 in)	Line side			
208 mm (8.19 in)	Version	Plug-in screw terminals		
Inputs / outputs		4.00 6.00 mm² (AWG 12 AWG 10)		
	Motor end			
6	Version	Plug-in screw terminals		
11 V	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10		
5 V	DC link (for braking resistor))		
15 mA	Version	Plug-in screw terminals		
	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10		
1	Line length, max.	15 m (49.21 ft)		
	PE connection	On housing with M4 screw		
1	Max. motor cable length			
DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)		
1	Unshielded	150 m (492.13 ft)		
DC 30 V, 0.5 A	Standards			
	Compliance with standards	UL, cUL, CE, C-Tick (RCM)		
1 (Differential input)				
10 bit	CE marking	EMC Directive 2004/108/EC, Low-Volta Directive 2006/95/EC		
but				
4 V				
1.6 V				
1 (Non-isolated output)				
	IP20 / UL open type FSB 2.30 kg (5.07 lb) 100 mm (3.94 in) 196 mm (7.72 in) 208 mm (8.19 in) 208 mm (8.19 in) common (3.94 in) 196 mm (7.72 in) 208 mm (8.19 in) common (3.94 in) 196 mm (7.72 in) 208 mm (8.19 in) common (3.94 in) 11 V 5 V 15 mA 1 DC 30 V, 0.5 A 1 DC 30 V, 0.5 A 1 DC 30 V, 0.5 A 1 A A V 1.6 V	IP20 / UL open type Communication FSB Co 2.30 kg (5.07 lb) Signal cable 100 mm (3.94 in) Conductor cross-section 196 mm (7.72 in) Line side 208 mm (8.19 in) Version puts Conductor cross-section 6 Version 11 V Conductor cross-section 5 V DC link (for braking resistor) 15 mA Version 1 Conductor cross-section 1 Conductor cross-section 1 Conductor cross-section 1 Conductor cross-section 1 Max. motor cable length 1 Unshielded DC 30 V, 0.5 A Shielded 1 Optimizer (Compliance with standards) 1 Compliance with standards) 10 bit CE marking		

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



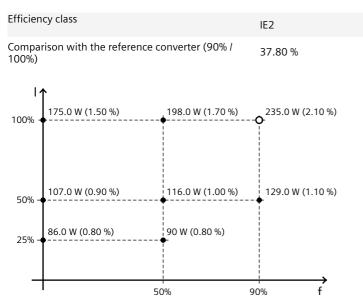
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Figure similar

Converter losses to IEC61800-9-2*



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