

MLFB-Ordering data

6SL3210-1KE14-3AF2



Figure similar

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

ltem no. :
Consignment no. :
Project :

nput Number of phases Line voltage Line frequency Rated current (LO) Rated current (HO)	3 AC 380 480 V +10 % -20 % 47 63 Hz 5.50 A 4.50 A 3 AC 400 V 1.50 kW	Power factor λ Offset factor cos φ Efficiency η Sound pressure level (1m) Power loss Filter class (integrated) Ambie Cooling	0.9 0.9 49 0.0	97 dB 96 kW Iss A		
Line voltage Line frequency Rated current (LO) Rated current (HO)	380 480 V +10 % -20 % 47 63 Hz 5.50 A 4.50 A 3 AC 400 V	Efficiency η Sound pressure level (1m) Power loss Filter class (integrated) Ambie	0.9 49 0.0 Cla	97 dB 96 kW Iss A		
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Rated current (LO) Rated current (HO)	5.50 A 4.50 A 3 AC 400 V	Power loss Filter class (integrated) Ambie	0.0 Cla	06 kW Iss A		
Rated current (HO)	4.50 A 3 AC 400 V	Filter class (integrated)	Cla	iss A		
	3 AC 400 V	Ambie				
Dutput	400 V		ent conditio	ns		
	400 V			115		
Number of phases		Cooling		Ambient conditions		
Rated voltage	1.50 kW		Air coolin	g using an integrated fan		
Rated power IEC 400V (LO)						
Rated power NEC 480V (LO)	2.00 hp	Cooling air requirement		/s (0.177 ft³/s)		
Rated power IEC 400V (HO)	1.10 kW	Installation altitude	1000 m (3280.84 ft)		
Rated power NEC 480V (HO)	1.50 hp	Ambient temperature				
Rated current (LO)	4.10 A	Operation	-10 40	°C (14 104 °F)		
Rated current (HO)	3.10 A	Transport	-40 70	°C (-40 158 °F)		
Rated current (IN)	4.30 A	Storage	-40 70	°C (-40 158 °F)		
Max. output current	6.20 A	Relative humidity				
Pulse frequency	4 kHz	95 % At 40 °C (104 °F), condens Max. operation and icing not permissible				
	0 24011					
Output frequency for vector control	0 240 Hz	Closed-loop control techniques				
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / param		Yes		
		V/f with flux current control (FCC)	Yes		
verload capability		V/f ECO linear / square-law		Yes		
Low Overload (LO)		Sensorless vector control		Yes		
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Vector control, with sensor		No		
		Encoderless torque control		No		
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

No

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

Torque control, with encoder



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	•		Figu	
Mechanical data		Com	Communication	
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP	
Size	FSAA	Connections		
Net weight	1.40 kg (3.09 lb)	Signal cable		
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG	
Height	173 mm (6.81 in)	Line side		
Depth	160 mm (6.30 in)	Version	Plug-in screw terminals	
Inputs / outputs		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	Line length, max.	15 m (49.21 ft)	
igital outputs		PE connection	On housing with M4 screw	
Number as relay changeover contact	1	Max. motor cable length	on nousing with MF screw	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)	
Number as transistor	1	Unshielded	100 m (328.08 ft)	
Output (resistive load)	DC 30 V, 0.5 A	Standards		
nalog / 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-Ve Directive 2006/95/EC	
witching threshold as digital in	out			
0→1	4 V			
1→0	1.6 V			

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 $\pm 5~^\circ\mathrm{C}$



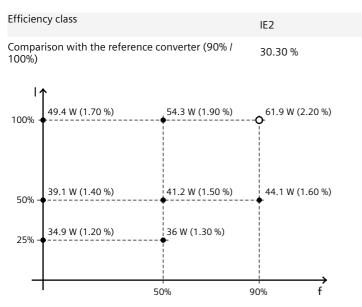
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Figure similar

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