

MLFB-Ordering data

6SL3210-1KE23-2AF1



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
Input		Power factor λ	0.7	70 0.85
Number of phases	3 AC	Offset factor cos φ	0.9	95
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9)7
Line frequency	47 63 Hz	Sound pressure level (1m)	66	dB
Rated current (LO)	40.60 A	Power loss	0.4	13 kW
Rated current (HO)	36.40 A	Filter class (integrated)	Cla	iss A
Output		Ambien	t conditio	ns
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air coolin	g using an integrated fan
Rated power IEC 400V (LO)	15.00 kW	Cooling of requirement	0.018 m3	/s (0.636 ft³/s)
Rated power NEC 480V (LO)	20.00 hp	Cooling air requirement		· · ·
Rated power IEC 400V (HO)	11.00 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (HO)	15.00 hp	Ambient temperature		
Rated current (LO)	31.00 A	Operation		°C (14 104 °F)
Rated current (HO)	25.00 A	Transport		°C (-40 158 °F)
Rated current (IN)	32.00 A	Storage	-40 70	°C (-40 158 °F)
Max. output current	50.00 A	Relative humidity		
Pulse frequency	4 kHz	95 % At 40 °C (104 °F), conde Max. operation and icing not permissible		
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 / paramet	erizable	Yes
		V/f with flux current control (FC	C)	Yes
Overload 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

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

No

Torque control, with encoder



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Mechanical data		Com	Figure similar Communication		
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP		
Size	FSC	Connections			
Net weight	4.40 kg (9.70 lb)	Signal cable			
Width	140 mm (5.51 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)		
Height	295 mm (11.61 in)	Line side			
Depth	208 mm (8.19 in)	Version	Plug-in screw terminals		
Inputs / out	tputs	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)		
itandard digital inputs		Motor end			
Number	6	Version	Plug-in screw terminals		
Switching level: 0→1	11 V	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)		
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			-		
Number	1	Conductor cross-section	6.00 16.00 mm ² (AWG 10 AWG 6)		
Digital outputs		Line length, max.	15 m (49.21 ft)		
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					
Number	1 (Differential input)	Compliance with standards	UL, cUL, CE, C-Tick (RCM)		
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Low-Voltag Directive 2006/95/EC		
witching threshold as digital in	put				
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 $\pm 5~^\circ\mathrm{C}$



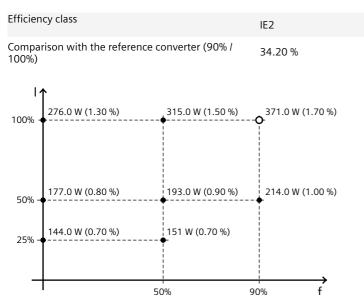
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Figure similar

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