

MLFB-Ordering data

6SL3210-1KE13-2AB2



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
		Power factor λ	0.70 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	17
Line frequency	47 63 Hz	Sound pressure level (1m)	49	dB
Rated current (LO)	4.10 A	Power loss	0.0	95 kW
Rated current (HO)	3.20 A	Filter class (integrated)	Cla	ss A
Dutput		Ambia	at condition	
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air coolin	g using an integrated fan
Rated power IEC 400V (LO)	1.10 kW		0.005	
Rated power NEC 480V (LO)	1.50 hp	Cooling air requirement		/s (0.177 ft³/s)
Rated power IEC 400V (HO)	0.75 kW	Installation altitude	1000 m ()	3280.84 ft)
Rated power NEC 480V (HO)	1.00 hp	Ambient temperature		
Rated current (LO)	3.10 A	Operation		°C (14 104 °F)
Rated current (HO)	2.20 A	Transport	-40 70	°C (-40 158 °F)
Rated current (IN)	3.20 A	Storage	-40 70	°C (-40 158 °F)
Max. output current	4.40 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 tec	hniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parame	eterizable	Yes
		V/f with flux current control (F	CC)	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

No

Torque control, with encoder



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			Figure	
Mechanical data		Cor	Communication	
Degree of protection	IP20 / UL open type	Communication	USS/MODBUS RTU	
ize	FSAA	Connections		
let 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	
leight	173 mm (6.81 in)	Line side		
Depth	155 mm (6.10 in)	Version	Plug-in screw terminals	
Inputs / outputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG	
andard 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 resisto	r)	
Max. inrush current	15 mA	Version	Plug-in screw terminals	
il-safe digital inputs		Conductor cross-section	1.00 2.50 mm ² (AWG 18 AWG	
Number	1		15 m (49.21 ft)	
gital outputs		Line length, max.		
Number as relay changeover contact	1	PE connection Max. motor cable length	On housing with M4 screw	
Dutput (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	
alog / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Number	1 (Differential input)			
esolution	10 bit	CE marking	EMC Directive 2004/108/EC, Low-Vo Directive 2006/95/EC	
vitching threshold as digital in	put			
)→1	4 V			
→ 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 $\pm 5~^\circ\mathrm{C}$



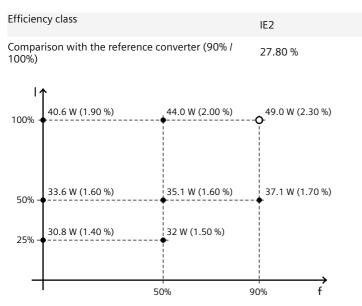
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Figure similar

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