

MLFB-Ordering data

6SL3210-1KE21-3AB1



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data		General tech. specifications			
nput		Power factor λ	0.7	0 0.85	
Number of phases	3 AC	Offset factor cos φ	0.9	5	
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	7	
Line frequency	47 63 Hz	Sound pressure level (1m)	63	dB	
Rated current (LO)	16.50 A	Power loss	0.1	8 kW	
Rated current (HO)	12.80 A	Filter class (integrated)	Cla	ss A	
Dutput		Ambion	t conditio		
Number of phases	3 AC	Ambient conditions			
Rated voltage	400 V	Cooling	Air coolin	g using an integrated fan	
Rated power IEC 400V (LO)	5.50 kW	Casting signs wine wast	0.000 m3	(0 210 ft3/-)	
Rated power NEC 480V (LO)	7.50 hp	Cooling air requirement		/s (0.318 ft³/s)	
Rated power IEC 400V (HO)	4.00 kW	Installation altitude	1000 m (.	3280.84 ft)	
Rated power NEC 480V (HO)	5.00 hp	Ambient temperature			
Rated current (IN)	13.00 A	Operation	-10 40	°C (14 104 °F)	
Rated current (LO)	12.50 A	Transport	-40 70	°C (-40 158 °F)	
Rated current (HO)	8.80 A	Storage	-40 70	°C (-40 158 °F)	
		Relative humidity			
Max. output current	17.60 A		95 % At 40 °C (104 °F), condensation		
Pulse frequency	4 kHz	Max. operation	and icing	and icing not permissible	
Output frequency for vector control	0 240 Hz	Closed-loop control techniques			
	0 550 Hz	Closed-loop C	control tech	nniques	
Output frequency for V/f control		V/f linear / square-law / parame	terizable	Yes	
		V/f with flux current control (FC	C)	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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Mechanical data		Figure sim		
Degree of protection IP20 / UL open type		Communication	USS/MODBUS RTU	
Size	FSB	Connections		
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	0.15 1.50 mm (Awd 24 Awd 10	
Depth	203 mm (7.99 in)	Version	Plug-in screw terminals	
Inputs / out			-	
itandard digital inputs	iputs	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10	
Number	6	Motor end Version	Plug-in screw terminals	
Switching level: 0→1	11 V	Conductor cross-section	4.00 6.00 mm ² (AWG 12 AWG 10	
Switching level: $1 \rightarrow 0$	5 V			
Max. inrush current	15 mA	DC link (for braking resistor)	
ail-safe digital inputs	10 11/1	Version	Plug-in screw terminals	
Number	1	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10	
ligital outputs		Line length, max.	15 m (49.21 ft)	
		PE connection	On housing with M4 screw	
Number as relay changeover contact	1	Max. motor cable length		
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		Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Number	1 (Differential input)			
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Low-Volta 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 $\pm 5~^\circ\mathrm{C}$



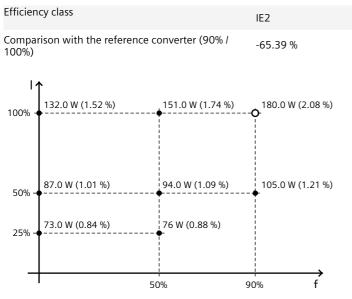
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Figure similar

Converter losses to EN 50598-2*



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 EN 50598) 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