

MLFB-Ordering data

6SL3210-1KE21-3UF1



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
nput		Power factor λ	0.70) 0.85
Number of phases	3 AC	Offset factor cos φ	0.95	5
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97	
Line frequency	47 63 Hz	Sound pressure level (1m)	63 0	IB
Rated current (LO)	16.50 A	Power loss	0.18	3 kW
Rated current (HO)	12.80 A	Filter class (integrated)		iltered
utput			-	
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air cooling	using an integrated fan
Rated power IEC 400V (LO)	5.50 kW			
Rated power NEC 480V (LO)	7.50 hp	Cooling air requirement	0.009 m³/s	s (0.318 ft³/s)
Rated power IEC 400V (HO)	4.00 kW	Installation altitude	1000 m (3	280.84 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 Max. operation and icing not perm) °C (104 °F), condensatior
Pulse frequency	4 kHz			ot permissible
Output frequency for vector control	0 240 Hz			
		Closed-loop co	ontrol tech	iniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramete	erizable	Yes
		V/f with flux current control (FCC)	Yes
		WIE ECO linear / course law		Vac

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 similar Communication		
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP	
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		
Depth	208 mm (8.19 in)	Version	Plug-in screw terminals	
Inputs / out	tputs	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10)	
Standard digital inputs		Motor end		
Number	6	Version	Plug-in screw terminals	
Switching level: 0→1	11 V	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10)	
Switching level: 1→0	5 V	DC link (for braking resistor))	
Max. inrush current	15 mA	Version	Plug-in screw terminals	
Fail-safe digital inputs		Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10)	
Number	1	Line length, max.	15 m (49.21 ft)	
Digital outputs		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-Voltag Directive 2006/95/EC	
Switching 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 $\pm 5~^\circ\mathrm{C}$



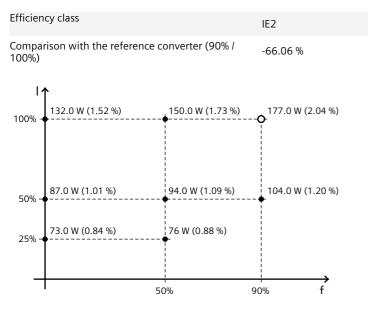
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Figure similar

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