

MLFB-Ordering data

6SL3210-1KE21-7UF1

Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data		General tech. specifications	
Input		Power factor λ	0.70 0.85
Number of phases	3 AC	Offset factor cos φ	0.95
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97
Line frequency	47 63 Hz	Sound pressure level (1m)	63 dB
Rated current (LO)	21.50 A	Power loss	0.24 kW
Rated current (HO)	18.20 A	Filter class (integrated)	Unfiltered
Output		-	
Number of phases	3 AC	Ambient conditions	
Rated voltage	400 V	Cooling	Air cooling using an integrated fan
Rated power IEC 400V (LO)	7.50 kW		
Rated power NEC 480V (LO)	10.00 hp	Cooling air requirement	0.009 m³/s (0.318 ft³/s)
Rated power IEC 400V (HO)	5.50 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (HO)	7.50 hp	Ambient temperature	
Rated current (IN)	17.00 A	Operation	-10 40 °C (14 104 °F)
Rated current (LO)	16.50 A	Transport	-40 70 °C (-40 158 °F)
Rated current (HO)	12.50 A	Storage	-40 70 °C (-40 158 °F)
Max. output current	25.00 A	Relative humidity	
Pulse frequency	4 kHz	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible
			and icing not permissible
Output frequency for vector control	0 240 Hz	Closed-loop c	ontrol techniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parameterizable 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		Vector control, with sensor	No

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

Encoderless torque control

Torque control, with encoder

No

No



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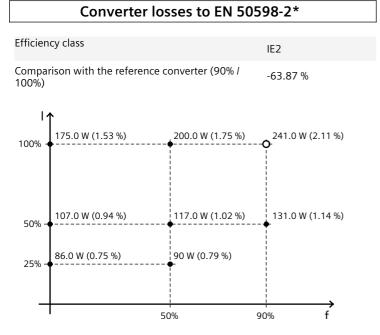
Figure similar

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	St	andards
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-Voltage 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, sensor and Thermo-Click, accuracy ±5 °C	rs that can be connected: PTC, KTY		



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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

No image available for this configuration.

Figure similar