

MLFB-Ordering data

6SL3220-1YE16-0AF0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rate	Rated data			
Input				
Number of phases	3 AC			
Line voltage	380 480 V	380 480 V +10 % -20 %		
Line frequency	47 63 Hz	47 63 Hz		
Rated voltage	400V IEC	480V NEC		
Rated current (LO)	5.50 A	4.60 A		
Rated current (HO)	3.82 A	3.00 A		
Output				
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC		

Rated current (HO) Output	3.82 A	3.00 A
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC
Rated power (LO)	2.20 kW	3.00 hp
Rated power (HO)	1.50 kW	2.00 hp
Rated current (LO)	5.90 A	4.80 A
Rated current (HO)	4.10 A	3.40 A
Rated current (IN)	6.10 A	
Max. output current	6.40 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 200 Hz	
Output frequency for V/f control	0 550 Hz	

General tech. specifications			
Power factor λ	0.70 0.85		
Offset factor cos φ	0.96		
Efficiency η	0.98		
Sound pressure level (1m)	55 dB		
Power loss	0.080 kW		
Filter class (integrated)	RFI suppression filter for Category C2		
Ambient conditions			

Ambient conditions			
Standard board coating type	Class 3C2, according to IEC 60721-3 3: 2002		
Cooling	Air cooling using an integrated fan		
Cooling air requirement	0.005 m³/s (0.177 ft³/s)		
Installation altitude	1000 m (3280.84 ft)		
Ambient temperature			
Operation	-20 45 °C (-4 113 °F)		
Transport	-40 70 °C (-40 158 °F)		
Storage	-25 55 °C (-13 131 °F)		
Relative humidity			

95 % At 40 °C (104 °F), condensation

and icing not permissible

Overload capability

Low Overload (LO)

110% base load current IL for 60 s in a 300 s cycle time

High Overload (HO)

150% x base load current IH for 60 s within a 600 s cycle time

Max. operation



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			Figure simila
Mechanical	data	Closed-loop co	ntrol techniques
Degree of protection	IP20 / UL open type		Voc
Size	FSA	V/f linear / square-law / parameterizable Yes	
Net weight	3 kg (7.50 lb)	V/f with flux current control (FCC)	
Width	73 mm (2.87 in)	V/f ECO linear / square-law	Yes
Height	232 mm (9.13 in)	Sensorless vector control	Yes
Depth	209 mm (8.23 in)	Vector control, with sensor	No
Inputs / ou	. ,	Encoderless torque control	Yes
Standard digital inputs	ιραισ	Towns control with angoden	No
Number	6	Torque control, with encoder	INU
	11 V	Communication	
Switching level: 0→1	5 V	Communication	PROFINET, EtherNet/IP
Switching level: 1→0		Connections	
Max. inrush current	15 mA	Signal cable	
Fail-safe digital inputs		Conductor cross-section	0.15 1.50 mm ²
Number	1		(AWG 24 AWG 16)
Digital outputs		Line side	
Number as relay changeover contact	2	Version	screw-type terminal
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	1.50 2.50 mm² (AWG 16 AWG 14)
Number as transistor	0	Motor end	
Analog / digital inputs		Version	Screw-type terminals
Number	2 (Differential input)	Conductor succe costion	1.50 2.50 mm²
Resolution	10 bit	Conductor cross-section	(AWG 16 AWG 14)
		DC link (for braking resistor)	
Switching threshold as digital in	•	PE connection	On housing with M4 screw
0→1	4 V	Max. motor cable length	
1→0	1.6 V	Shielded	150 m (492.13 ft)
Analog outputs		Unshielded	300 m (984.25 ft)
Number	1 (Non-isolated output)		
PTC/ KTY interface			

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

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^{\circ}\text{C}$



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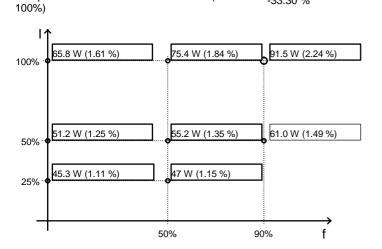


Figure similar

Converter losses to EN 50598-2*

Efficiency class IE2

Comparison with the reference converter (90% / -33.30 %



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.

Standards

Compliance with standards

UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH

CE marking

EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC

^{*}converted values