

MLFB-Ordering data

6SL3220-1YE22-0AF0



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

Remarks:

Item no.: Consignment no. : Project :

	Rated data				
Input					
	Number of phases	3 AC			
	Line voltage	380 480 V	380 480 V +10 % -20 %		
	Line frequency	47 63 Hz			
	Rated voltage	400V IEC	480V NEC		
	Rated current (LO)	12.00 A	12.00 A		
	Rated current (HO)	9.27 A	9.75 A		
0	Output				

	nateu voitage	400V ILC	400V NLC
	Rated current (LO)	12.00 A	12.00 A
	Rated current (HO)	9.27 A	9.75 A
0	utput		
	Number of phases	3 AC	
	Rated voltage	400V IEC	480V NEC
	Rated power (LO)	5.50 kW	7.50 hp
	Rated power (HO)	4.00 kW	5.00 hp
	Rated current (LO)	13.20 A	11.00 A
	Rated current (HO)	10.20 A	7.60 A
	Rated current (IN)	13.60 A	
	Max. output current	18.00 A	
	Pulse frequency	4 kHz	
	Output frequency for vector control	0 200 Hz	
	Output frequency for V/f control	0 550 Hz	

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Overload capa	bility		

C

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

General tech. specifications			
Power factor λ	0.70 0.85		
Offset factor cos φ	0.96		
Efficiency η	0.98		
Sound pressure level (1m)	63 dB		
Power loss	0.181 kW		
Filter class (integrated)	RFI suppression filter for Category C2		
EMC category (with accessories)	Category C2		

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	0.009 m³/s (0.325 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
Max. operation	and icing not permissible



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			Figure simila	
Mechanical data		Closed-loop control	techniques	
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameterizable	Yes	
Size Net weight	FSB 6 kg (13.58 lb)	V/f with flux current control (FCC)	Yes	
	-	V/f ECO linear / square-law	Yes	
Width	100 mm (3.94 in)	Sensorless vector control	Yes	
Height	275 mm (10.83 in)	Vector control, with sensor	No	
Depth	218 mm (8.58 in)		Ves	
Inputs / out	puts	Encoderless torque control	Yes	
Standard digital inputs		Torque control, with encoder	No	
Number	6	Communica	tion	
Switching level: 0→1	11 V	Communication		
Switching level: 1→0	5 V		FINET, EtherNet/IP	
Max. inrush current 15 mA		Connectio	Connections	
Fail-safe digital inputs		Signal cable		
Number	1	I ONGLICTOR CROSS-SACTION	5 1.50 mm² G 24 AWG 16)	
Digital outputs		Line side		
Number as relay changeover contact	2	Version scree	w-type terminal	
Output (resistive load)	DC 30 V, 5.0 A) 6.00 mm² G 16 AWG 10)	
Number as transistor	0	Motor end		
Analog / digital inputs		Version Scre	w-type terminals	
Number	2 (Differential input)	(anductor cross-section) 6.00 mm² G 16 AWG 10)	
Resolution	10 bit	DC link (for braking resistor)	,	
Switching threshold as digital input			nousing with M4 screw	
0→1	4 V	Max. motor cable length	loasing with with sciew	
1→0	1.6 V	-	m (492.13 ft)	
Analog outputs			,	

PTC/ KTY interface

Number

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

1 (Non-isolated output)



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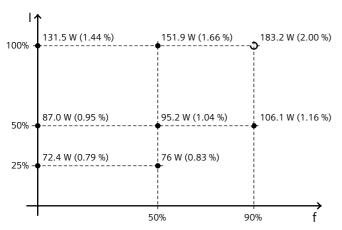
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-34.30 %



 $The \ percentage \ values \ show \ the \ losses \ in \ relation \ to \ the \ rated \ apparent \ power \ of \ the \ converter.$

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