

MLFB-Ordering data

6SL3220-3YE24-0AF0



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data			General tech	General tech. specifications		
nput			Power factor λ	0.70 0.85		
Number of phases	3 AC		Offset factor cos φ	0.96		
Line voltage	380 480 V +10 % -20 %		Efficiency η	0.98		
Line frequency	47 63 Hz		Sound pressure level (1m)	63 dB		
Rated voltage	400V IEC	480V NEC	Power loss	0.245 kW		
Rated current (LO)	17.00 A	17.00 A	Filter class (integrated)	RFI suppression filter for Category C2		
Rated current (HO)	12.47 A	13.25 A	Filler class (integrated)			
utput			EMC category (with accessories)	Category C2		
Number of phases	3 AC					
Rated voltage	400V IEC	480V NEC	Ambient conditions			
Rated power (LO)	7.50 kW	10.00 hp	Standard board coating type	Class 3C2, according to IEC 6072 3: 2002		
Rated power (HO)	5.50 kW	7.50 hp				
Rated current (LO)	18.00 A	14.00 A	Cooling Air cooling using an inte			
Rated current (HO)	13.20 A	11.00 A				
Rated current (IN)	18.50 A		Cooling air requirement0.009 m³/s (0.325 ft³/s)			
Max. output current	24.00 A		Installation altitude	1000 m (3280.84 ft)		
Pulse frequency	4 kHz		Ambient temperature			
Output frequency for vector control	0 200 Hz		Operation	-20 45 °C (-4 113 °F)		
			Transport	-40 70 °C (-40 158 °F)		
Output frequency for V/f control	0 550 Hz		Storage	-25 55 ℃ (-13 131 °F)		
			Relative humidity			
			Max operation	95 % At 40 °C (104 °F), condens		

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

and icing not permissible



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Mechanical data		Closed-loop control techniques	
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameteriz	zable Yes
Size	FSB		
Net weight	6 kg (13.58 lb)	V/f with flux current control (FCC)	Yes
Width	100 mm (3.94 in)	V/f ECO linear / square-law	Yes
Height	275 mm (10.83 in)	Sensorless vector control	Yes
Depth	218 mm (8.58 in)	Vector control, with sensor	No
Inputs / outputs		Encoderless torque control	Yes
tandard digital inputs	1	Torque control, with encoder	No
Number	6		• .•
Switching level: 0→1	11 V	Communication	
Switching level: 1→0	5 V	Communication	PROFINET, EtherNet/IP
Max. inrush current	15 mA	Connections	
ail-safe digital inputs		Signal cable	
Number	1	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
ligital 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 6.00 mm² (AWG 16 AWG 10)
Number as transistor	0	Motor end	
nalog / digital inputs		Version	Screw-type terminals
Number	2 (Differential input)	Conductor cross-section	1.50 6.00 mm² (AWG 16 AWG 10)
Resolution	10 bit	DC link (for braking resistor)	
witching threshold as digital in	put	PE connection	On housing with M4 scr
0→1	4 V	Max. motor cable length	on nousing with M4 SC
1→0	1.6 V		150
analog outputs		Shielded	150 m (492.13 ft)
Number	1 (Non isolated autout)		
Number	1 (Non-isolated output)		
TC/ 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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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

Operator panel: Intelligent Operator Panel (IOP-2)

Screen		Ambient conditions		
Display design	LCD colors	Ambient temperature dur	ing	
Screen resolution	320 x 240 Pixel	Operation	0 50 °C (32 122 °F)	
	520 / 2 10 11/01		55 °C only with door mounting kit	
Mechanical data		Storage	-40 70 °C (-40 158 °F)	
Degree of protection	IP55 / UL type 12	Transport	-40 70 °C (-40 158 °F)	
Net weight	0.13 kg (0.30 lb)	Relative humidity at 25°C	during	
Width	70.0 mm (2.76 in)	Max. operation	95 %	
Height	106.85 mm (4.21 in)			
			Approvals	
Depth	19.65 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM	