

MLFB-Ordering data

6SL3220-3YE22-0AF0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data			General tech. specifications	
iput			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	0.181 kW
Rated current (LO)	12.00 A	12.00 A	Filter class (integrated)	RFI suppression filter for Category C2
Rated current (HO)	9.27 A	9.75 A	The class (integrated)	
utput			Ambient conditions	
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC	Cooling	Air cooling using an integrated fan
Rated power (LO)	5.50 kW	7.50 hp	Cooling air requirement	0.009 m³/s (0.325 ft³/s)
Rated power (HO)	4.00 kW	5.00 hp	Installation altitude	1000 m (3280.84 ft)
Rated current (LO)	13.20 A	11.00 A	Ambient temperature	
Rated current (HO)	10.20 A	7.60 A	Operation	-20 45 °C (-4 113 °F)
Rated current (IN)	13.60 A		Transport	-40 70 °C (-40 158 °F)
Max. output current	18.00 A		Storage	-25 55 °C (-13 131 °F)
Pulse frequency	4 kHz		Relative humidity	
Output frequency for vector control	0 200 Hz		Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible
Output frequency for V/f control 0 550 Hz		Closed-loop o	control techniques	

Overload capability	V/f with flux current control (FCC)	Yes
Low Overload (LO)	V/f ECO linear / square-law	Yes
	Sensorless vector control	Yes
110% base load current IL for 60 s in a 300 s cycle time	Vector control, with sensor	No
High Overload (HO)	Encoderless torque control	Yes
150% x base load current IH for 60 s within a 600 s cycle time	Torque control, with encoder	No



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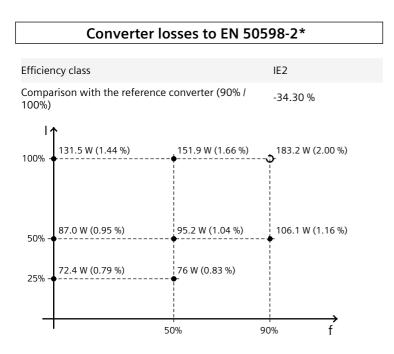
Figure similar

Mechanical data		Communication		
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP	
Size	FSB	Со	nnections	
Net weight	6 kg (13.58 lb)	Signal cable		
Width	100 mm (3.94 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Height	275 mm (10.83 in)	Line side		
Depth	209 mm (8.23 in)	Version	screw-type terminal	
Inputs / out	puts	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)	
Standard digital inputs		Motor end		
Number	6	Version	Screw-type terminals	
Switching level: 0→1	11 V	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)	
Switching level: 1→0	5 V	DC link (for braking resistor)		
Max. inrush current	15 mA	PE connection	On housing with M4 screw	
Fail-safe digital inputs		Max. motor cable length	J	
Number	1	Shielded	200 m (656.17 ft)	
Digital outputs		Unshielded	300 m (984.25 ft)	
Number as relay changeover contact	2	Standards		
Output (resistive load)	DC 30 V, 5.0 A		UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH	
Number as transistor	0	Compliance with standards		
Analog / digital inputs				
Analog / digital inputs Number	2 (Differential input)	CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC	
	2 (Differential input) 10 bit	CE marking		
Number	10 bit	CE marking		
Number Resolution	10 bit	CE marking		
Number Resolution Switching threshold as digital in	10 bit	CE marking		
Number Resolution Switching threshold as digital in 0→1	10 bit Dut 4 V	CE marking		
Number Resolution Switching threshold as digital inp 0→1 1→0	10 bit Dut 4 V	CE marking		
Number Resolution Switching threshold as digital inp 0→1 1→0 Analog outputs	10 bit Dut 4 V 1.6 V	CE marking		



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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 during		
Screen resolution	320 x 240 Pixel	Operation	0 50 °C (32 122 °F)	
	320 X 240 Pixel		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 c	during	
Width	70.0 mm (2.76 in)			
Height	106.85 mm (4.21 in)	Max. operation	95 %	
			Approvals	
Depth	19.65 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM	

Figure similar