

MLFB-Ordering data

6SL3220-3YE44-0AF0



Figure similar

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

ltem no. :
Consignment no. :
Project :

		Power factor λ	0.9	90 0.95
3 AC		Offset factor cos φ	0.9	99
380 480 V +10 % -20 %		Efficiency n	0.9	98
47 63 Hz				
400V IEC	480V NEC	Power loss		570 kW
177.00 A	151.00 A	Filter class (integrated)		l suppression filter for
154.00 A	132.00 A	The class (integrated)	Ca	tegory C2
		Ambient conditions		
3 AC				
400V IEC	480V NEC	Cooling	Air coolir	ig using an integrated fan
90.00 kW	125.00 hp	Cooling air requirement	0.153 m³/s (5.403 ft³/s)	
75.00 kW	75.00 hp	Installation altitude	1000 m (3280.84 ft)	
178.00 A	156.00 A	Ambient temperature		
145.00 A	124.00 A	Operation	-20 45	°C (-4 113 °F)
183.00 A		Transport	-40 70	°C (-40 158 °F)
241.00 A		Storage	-25 55	°C (-13 131 °F)
4 kHz		Relative humidity		
0 200 Hz		Max. operation		0 °C (104 °F), condensation not permissible
0 550 Hz		Closed-loop c	ontrol tec	hniques
				Yes
		V/f with flux current control (FC	C)	Yes
		V/f ECO linear / square-law		Yes
	 380 480 V 47 63 Hz 400V IEC 177.00 A 154.00 A 3 AC 400V IEC 90.00 kW 75.00 kW 75.00 kW 178.00 A 145.00 A 183.00 A 241.00 A 4 kHz 0 200 Hz 	380 480 V + I 0 % - 20 % 47 63 Hz 400V IEC 480V NEC 177.00 A 151.00 A 154.00 A 132.00 A 3 AC 480V NEC 90.00 kW 125.00 hp 75.00 kW 75.00 hp 178.00 A 126.00 A 145.00 A 124.00 A 183.00 A 124.00 A 6 4 kHz	380 480 V +10 % -20 % Efficiency η 47 63 Hz Sound pressure level (1m) 400V IEC 480V NEC 177.00 A 151.00 A 154.00 A 132.00 A 3 AC Cooling 400V IEC 480V NEC 90.00 kW 125.00 hp 90.00 kW 125.00 hp 1778.00 A 156.00 A 178.00 A 156.00 A 183.00 A 124.00 A 0 200 Hz Max. operation 0 250 Hz Closed-loop c V/f linear / square-law / parameter V/f with flux current control (FC)	380480 V+10 % -20 % Efficiency ¶ 0.9 4763 Hz Sound pressure level (1m) 72 400V IEC 480V NEC Power loss 1.9 177.00 A 151.00 A 151.00 A Filter class (integrated) RF 154.00 A 132.00 A Cooling air requirement 0.153 m ³ 3 AC Cooling air requirement 0.153 m ³ 90.00 kW 125.00 hp Cooling air requirement 0.153 m ³ 90.00 kW 125.00 hp Operation -20 45 145.00 A 156.00 A Mabient temperature 000 m (100 m

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

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

Sensorless vector control

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

Yes

No

Yes

No



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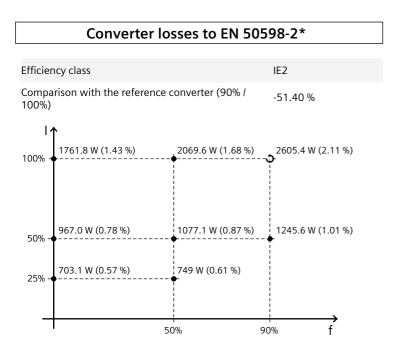
Figure similar

Mechanical data		Figure similar Communication		
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP	
Size	FSF	Connections		
Net weight	68 kg (149.91 lb)	Signal cable		
Width	305 mm (12.01 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Height	709 mm (27.91 in)	Line side		
Depth	360 mm (14.17 in)	Version	M10 screw	
Inputs / out	puts	Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG -3)	
Standard digital inputs		Motor end		
Number	6	Version	M10 screw	
Switching level: 0→1	11 V	Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG -3)	
Switching level: 1→0	5 V	DC link (for braking resistor)		
Max. inrush current	15 mA	PE connection	M10 screw	
Fail-safe digital inputs		Max. motor cable length		
Number	1	Shielded	300 m (984.25 ft)	
Digital outputs		Unshielded	450 m (1476.38 ft)	
Number as relay changeover contact	2	Standards		
Output (resistive load)	DC 30 V, 5.0 A			
Number as transistor	0	Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH	
Analog / digital inputs				
Number	2 (Differential input)	CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC	
Resolution	10 bit			
Switching threshold as digital in	out			
0→1	4 V			
1→0	1.6 V			
1→0 Analog outputs	1.6 V			
	1.6 V 1 (Non-isolated output)			
Analog outputs				



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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)	
	520 x 240 Fixei		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 o	during	
Width	70.0 mm (2.76 in)	Max anoration	95 %	
Height	106.85 mm (4.21 in)	Max. operation	22 70	
-			Approvals	
Depth	19.65 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM	



Figure similar