

### **MLFB-Ordering data**

6SL3220-3YE38-0AF0



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
		Power factor λ	0.	90 0.95
3 AC		Offset factor cos φ		99
380 480 V +10 % -20 %				
47 63 Hz				) dB
400V IEC	480V NEC			020 kW
89.00 A	74.00 A			I suppression filter for
78.00 A	69.00 A	Filter class (integrated)	Category C2	
		Ambient conditions		
3 AC				
400V IEC	480V NEC	Cooling	Air coolir	ng using an integrated fan
45.00 kW	60.00 hp	Cooling air requirement	0.083 m	³/s (2.931 ft³/s)
37.00 kW	40.00 hp	Installation altitude	1000 m	(3280.84 ft)
90.00 A	77.00 A	Ambient temperature		
75.00 A	65.00 A	Operation	-20 45	5 °C (-4 113 °F)
93.00 A		Transport	-40 70	) °C (-40 158 °F)
122.00 A		Storage	-25 55	5 ℃ (-13 131 °F)
4 kHz		Relative humidity		
0 200 Hz		Max. operation		40 °C (104 °F), condensation not permissible
0 550 Hz		Closed-loop control techniques		
		V/f linear / square-law / parame	terizable	Yes
		V/f with flux current control (FC	CC)	Yes
	<ul> <li>3 AC</li> <li>380 480 N</li> <li>47 63 Hz</li> <li>400V IEC</li> <li>89.00 A</li> <li>78.00 A</li> <li>3 AC</li> <li>400V IEC</li> <li>37.00 KW</li> <li>90.00 A</li> <li>75.00 A</li> <li>93.00 A</li> <li>122.00 A</li> <li>4 KHz</li> <li>0 200 Hz</li> </ul>	3 AC         380 480 V + 10 % - 20 %         47 63 Hz         400V IEC       480V NEC         89.00 A       74.00 A         78.00 A       69.00 A         3 AC       480V NEC         400V IEC       480V NEC         3 AC       480V NEC         37.00 kW       60.00 hp         90.00 A       77.00 A         90.00 A       77.00 A         93.00 A       65.00 A         122.00 A       4 kHz         0 200 Hz	AC         Power factor λ           3 AC         Offset factor cos φ           380 480 V +10 % -20 %         Efficiency η           47 63 Hz         Sound pressure level (1m)           400V IEC         480V NEC           89.00 A         74.00 A           78.00 A         69.00 A           70.00 A         Cooling air requirement           Installation altitude         Installation altitude           90.00 A         77.00 A           93.00 A         Transport           122.00 A         Storage           Relative humidity           0 200 Hz         Max. operation           0 550 Hz         Closed-loop of	Power factor $\lambda$ 0.           3 AC         Offset factor cos $\varphi$ 0.           380 480 V +10 % -20 %         Efficiency $\eta$ 0.           47 63 Hz         Sound pressure level (1m)         70           400V IEC         480V NEC         Power loss         1.           89.00 A         74.00 A         Filter class (integrated)         RF           78.00 A         69.00 A         Cooling air requirement         0.083 m           3 AC         Cooling air requirement         0.083 m           3 AC         Mabient temperature         0.09 m           90.00 A         77.00 A         Ambient temperature         0.083 m           93.00 A         Transport         -40 70         50 p           93.00 A         Transport         -40 70         50 p           93.00 A         Transport         -40 70         50 p           93.00 A         Cooling         -25 55         50 At 4           93.00 A         Transport         -40 70           122.00 A         Kelative humidity         -25 55           4 kHz         Max. operation         95 % At 4           0 200 Hz         Max. operation         95 % At 4

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

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

V/f ECO linear / square-law

Sensorless vector control

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

Yes

Yes

No

Yes

No



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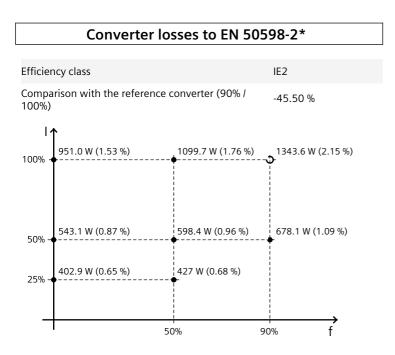
Figure similar

Mechanical data		Communication		
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP	
Size	FSE	Connections		
Net weight	29 kg (63.93 lb)	Signal cable		
Width	275 mm (10.83 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Height	551 mm (21.69 in)	Line side		
Depth	239 mm (9.41 in)	Version	screw-type terminal	
Inputs / out	puts	Conductor cross-section	25.00 95.00 mm² (AWG 4 AWG -1)	
Standard digital inputs		Motor end		
Number	6	Version	Screw-type terminals	
Switching level: 0→1	11 V	Conductor cross-section	25.00 95.00 mm² (AWG 4 AWG -1)	
Switching level: 1→0	5 V	DC link (for braking resistor)		
Max. inrush current	15 mA	PE connection	Screw-type terminals	
Fail-safe digital inputs		Max. motor cable length	51	
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			
Output (resistive load) Number as transistor	DC 30 V, 5.0 A 0	Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH	
		Compliance with standards	F47, REACH	
Number as transistor		Compliance with standards CE marking		
Number as transistor Analog / digital inputs	0		F47, REACH EMC Directive 2004/108/EC, Low-Voltage	
Number as transistor Analog / digital inputs Number	0 2 (Differential input) 10 bit		F47, REACH EMC Directive 2004/108/EC, Low-Voltage	
Number as transistor Analog / digital inputs Number Resolution	0 2 (Differential input) 10 bit		F47, REACH EMC Directive 2004/108/EC, Low-Voltage	
Number as transistor Analog / digital inputs Number Resolution Switching threshold as digital inp	0 2 (Differential input) 10 bit		F47, REACH EMC Directive 2004/108/EC, Low-Voltage	
Number as transistor Analog / digital inputs Number Resolution Switching threshold as digital inp 0→1	0 2 (Differential input) 10 bit out 4 V		F47, REACH EMC Directive 2004/108/EC, Low-Voltage	
Number as transistor Analog / digital inputs Number Resolution Switching threshold as digital inp 0→1 1→0	0 2 (Differential input) 10 bit out 4 V		F47, REACH EMC Directive 2004/108/EC, Low-Voltage	
Number as transistor Analog / digital inputs Number Resolution Switching threshold as digital inp $0 \rightarrow 1$ $1 \rightarrow 0$ Analog outputs	0 2 (Differential input) 10 bit Out 4 V 1.6 V		F47, REACH EMC Directive 2004/108/EC, Low-Voltage	



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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 duri	Ambient temperature during	
Screen resolution	320 x 240 Pixel	Operation	0 50 °C (32 122 °F)	
	320 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 d	luring	
Width	70.0 mm (2.76 in)	May execution		
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