

### **MLFB-Ordering data**

6SL3220-2YE38-0AF0



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General tech. specifications			
nput			Power factor λ	0.9	90 0.95
Number of phases	3 AC		Offset factor cos φ	0.9	
Line voltage	380 480 \	V +10 % -20 %			
Line frequency	47 63 Hz		Efficiency η	0.9	98
			Sound pressure level (1m)	70	dB
Rated voltage	400V IEC	480V NEC	Power loss	1.(	020 kW
Rated current (LO)	89.00 A	74.00 A	Filter class (integrated)		l suppression filter for tegory C2
Rated current (HO)	78.00 A	69.00 A			
Output			Ambier	nt conditio	ns
Number of phases	3 AC				
Rated voltage	400V IEC	480V NEC	Cooling	Air coolir	ng using an integrated fan
Rated power (LO)	45.00 kW	60.00 hp	Cooling air requirement	0.083 m <sup>3</sup>	<sup>2</sup> /s (2.931 ft <sup>3</sup> /s)
Rated power (HO)	37.00 kW	40.00 hp	Installation altitude	1000 m (	3280.84 ft)
Rated current (LO)	90.00 A	77.00 A	Ambient temperature		
Rated current (HO)	75.00 A	65.00 A	Operation	-20 45	°C (-4 113 °F)
Rated current (IN)	93.00 A		Transport	-40 70	°C (-40 158 °F)
Max. output current	122.00 A		Storage	-25 55	°C (-13 131 °F)
Pulse frequency	4 kHz		Relative humidity		
Output frequency for vector control	0 200 Hz		Max. operation		40 °C (104 °F), condensatior not permissible
Output frequency for V/f control	0 550 Hz		Closed-loop o	ontrol tec	hniques
			V/f linear / square-law / parame		Yes
verload capability			V/f with flux current control (FC	:C)	Yes

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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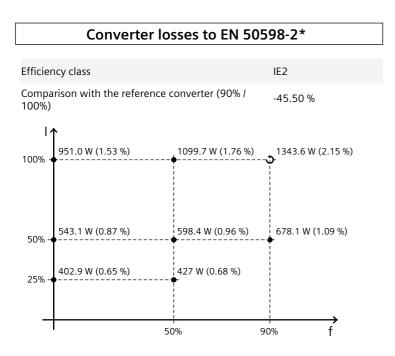
Figure similar

Mechanical	data	Com	munication
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP
Size	FSE	Co	nnections
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	Street Street
Number	1	Shielded	200 m (656.17 ft)
Digital outputs		Unshielded	300 m (984.25 ft)
Number as relay changeover contact	2	Si	tandards
Output (resistive load)	DC 30 V, 5.0 A		
		Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH
Number as transistor	0		
	0		
Analog / digital inputs		CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC
Analog / digital inputs Number	2 (Differential input)	CE marking	
Analog / digital inputs Number Resolution	2 (Differential input) 10 bit	CE marking	
Analog / digital inputs Number Resolution Switching threshold as digital inp	2 (Differential input) 10 bit Dut	CE marking	
Analog / digital inputs Number Resolution Switching threshold as digital inp 0→1	2 (Differential input) 10 bit Dut 4 V	CE marking	
Analog / digital inputs Number Resolution Switching threshold as digital inp 0→1 1→0	2 (Differential input) 10 bit Dut	CE marking	
Analog / digital inputs Number Resolution Switching threshold as digital inp 0→1	2 (Differential input) 10 bit Dut 4 V	CE marking	
Analog / digital inputs Number Resolution Switching threshold as digital inp 0→1 1→0	2 (Differential input) 10 bit Dut 4 V	CE marking	
Analog / digital inputs Number Resolution Switching threshold as digital inp 0→1 1→0 Analog outputs	2 (Differential input) 10 bit out 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: Basic Operator Panel (BOP-2)**

Screen		Ambient conditions		
Display design	LCD, monochrome	Ambient temperature during		
		Operation	0 50 °C (32 122 °F)	
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	0.14 kg (0.31 lb)	Relative humidity at 25°C d	uring	
Width	70.0 mm (2.76 in)	Max. operation	95 %	
Height	106.85 mm (4.21 in)	•		
Depth	19.60 mm (0.77 in)	Approvals		
-		Certificate of suitability	CE, cULus, EAC, KCC, RCM	



Figure similar