

## **MLFB-Ordering data**

6SL3220-2YE24-0AF0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated da	ita		General teo	h. specifications
nput			Power factor λ	0.70 0.85
Number of phases	3 AC		Offset factor cos φ	0.96
Line voltage	380 480 \	/ +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
Rated current (HO)	12.47 A	13.25 A	The class (integrated)	Category C2
Dutput			Ambier	nt conditions
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC	Cooling	Air cooling using an integrated fan
Rated power (LO)	7.50 kW	10.00 hp	Cooling air requirement	0.009 m³/s (0.325 ft³/s)
Rated power (HO)	5.50 kW	7.50 hp	Installation altitude	1000 m (3280.84 ft)
Rated current (LO)	18.00 A	14.00 A	Ambient temperature	
Rated current (HO)	13.20 A	11.00 A	Operation	-20 45 °C (-4 113 °F)
Rated current (IN)	18.50 A		Transport	-40 70 °C (-40 158 °F)
Max. output current	24.00 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	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	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

V/f linear / square-law / parameterizable

Yes



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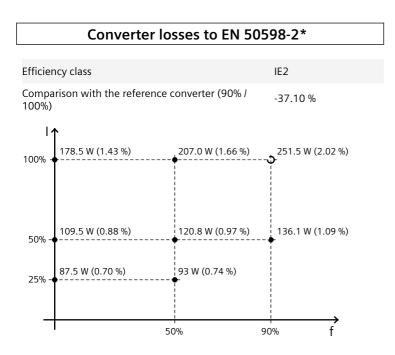
Figure similar

Mechanical	data	Com	munication
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	5
Number	1	Shielded	200 m (656.17 ft)
Digital outputs		Unshielded	300 m (984.25 ft)
Number as relay changeover contact	2	St	tandards
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			
Resolution	10 bit		
Switching threshold as digital in			
Switching threshold as digital in	out		
Switching threshold as digital in 0→1	out 4 V		
Switching threshold as digital inp 0→1 1→0	out 4 V		
Switching threshold as digital inp 0→1 1→0 Analog outputs	<b>but</b> 4 V 1.6 V		



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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