

### **MLFB-Ordering data**

6SL3220-2YE48-0AF0



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
Input			Power factor λ	0.90 0.95
Number of phases	3 AC		Offset factor cos φ	0.99
Line voltage	380 480 V	+10 % -20 %	Efficiency η	0.98
Line frequency	47 63 Hz		Sound pressure level (1m)	72 dB
Rated voltage	400V IEC	480V NEC	Power loss	2.350 kW
Rated current (LO)	247.00 A	232.00 A	Filter class (integrated)	RFI suppression filter for
Rated current (HO)	218.00 A	191.00 A	Filter 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)	132.00 kW	200.00 hp	Cooling air requirement	0.153 m³/s (5.403 ft³/s)
Rated power (HO)	110.00 kW	125.00 hp	Installation altitude	1000 m (3280.84 ft)
Rated current (LO)	250.00 A	240.00 A	Ambient temperature	
Rated current (HO)	205.00 A	180.00 A	Operation	-20 45 °C (-4 113 °F)
Rated current (IN)	256.00 A		Transport	-40 70 °C (-40 158 °F)
Max. output current	338.00 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), condensatio and icing not permissible
Output frequency for V/f control	0 550 Hz		Closed-loop control techniques	
			V/f linear / square-law / parame	t <b>erizable</b> Yes
Overload capability			V/f with flux current control (F0	CC) 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

#### 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.

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

No

Yes

No



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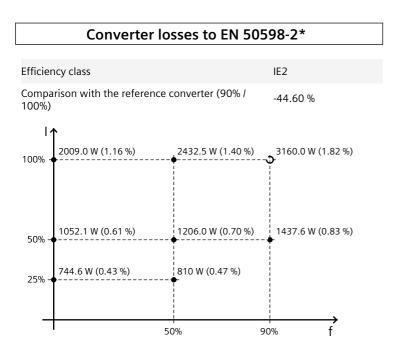
Figure similar

Mechanical	data	Com	munication
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP
Size	FSF	Сог	nnections
Net weight	71 kg (156.53 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 inp	<b>t</b>		
0→1	4 V		
1→0	1.6 V		
Analog outputs			
Number	1 (Non-isolated output)		
PTC/ KTY interface			
1 motor temperature sensor input, sensor and Thermo-Click, accuracy $\pm 5~^\circ\mathrm{C}$	s that can be connected: PTC, KTY		



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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)	-	Approvals
Depth	19.60 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM



Figure similar