

MLFB-Ordering data

6SL3220-2YE32-0AF0



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

Item no.: Consignment no. : Project :

Rated data		General tec	General tech. specifications	
		Power factor λ	0.90 0.95	
3 AC		Offset factor cos φ	0.99	
380 480 V	+10 % -20 %	Efficiency η	0.98	
47 63 Hz		Sound pressure level (1m)	70 dB	
400V IEC	480V NEC	Power loss	0.680 kW	
44.00 A	37.00 A	Filter class (integrated)	RFI suppression filter for	
38.00 A	35.00 A	Titler class (integrated)	Category C2	
		Ambier	nt conditions	
3 AC				
400V IEC	480V NEC	Cooling	Air cooling using an integrated fan	
22.00 kW	30.00 hp	Cooling air requirement	0.055 m³/s (1.942 ft³/s)	
18.50 kW	20.00 hp	Installation altitude	1000 m (3280.84 ft)	
45.00 A	40.00 A	Ambient temperature		
38.00 A	34.00 A	Operation	-20 45 °C (-4 113 °F)	
47.00 A		Transport	-40 70 °C (-40 158 °F)	
61.00 A		Storage	-25 55 °C (-13 131 °F)	
4 kHz		Relative humidity		
0 200 Hz		Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
0 550 Hz		Closed-loop o	control techniques	
	3 AC 380 480 V 47 63 Hz 400V IEC 44.00 A 38.00 A 3 AC 400V IEC 22.00 kW 18.50 kW 45.00 A 38.00 A 47.00 A 61.00 A 4 kHz 0 200 Hz	3 AC 380 480 V +10 % -20 % 47 63 Hz 400V IEC	Power factor λ Offset factor cos φ Efficiency η Sound pressure level (1m) Power loss Filter class (integrated) Ambier Sound pressure level (1m) Power loss Filter class (integrated) Ambier Sound pressure level (1m) Power loss Filter class (integrated) Ambier Sound pressure level (1m) Power loss Filter class (integrated) Sound pressure level (1m) Power loss Filter class (integrated) Sound pressure level (1m) Power loss Filter class (integrated) Sound pressure level (1m) Power loss Filter class (integrated) Sound pressure level (1m) Power loss Filter class (integrated) Ambier class (integrated) Sound pressure level (1m) Power loss Filter class (integrated) Ambier class (integrated) Sound pressure level (1m) Power loss Filter class (integrated) Ambier class (integrated) Sound pressure level (1m) Power loss Filter class (integrated) Ambier class (integrated) Sound pressure level (1m) Power loss Filter class (integrated) Ambier class (integrated) Sound pressure level (1m) Power loss Filter class (integrated) Ambier class (integrated) Sound pressure level (1m) Power loss Filter class (integrated) Ambier class (integrated) Sound pressure level (1m) Power loss Filter class (integrated) Sound pressure level (1m) Power loss Filter class (integrated) Sound pressure level (1m) Power loss Filter class (integrated) Sound pressure level (1m) Power loss Filter class (integrated) Power loss Filter class (integ	

Overload	capability
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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

Yes
Yes
Yes
Yes
No
Yes
No



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03	L3220 21232 0/11 0		Fi
Mechanical	data	Com	ımunication
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP
ize	FSD	Со	nnections
Net weight	18 kg (39.68 lb)	Signal cable	
Width	200 mm (7.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AW
Height	472 mm (18.58 in)	Line side	
Depth	239 mm (9.41 in)	Version	screw-type terminal
Inputs / out	tputs	Conductor cross-section	10.00 35.00 mm² (AWG 8 A
tandard digital inputs		Motor end	
Number	6	Version	Screw-type terminals
Switching level: 0→1	11 V	Conductor cross-section	10.00 35.00 mm² (AWG 8 A
Switching level: 1→0	5 V	DC link (for braking resistor))
Max. inrush current	15 mA	PE connection	Screw-type terminals
ail-safe digital inputs		Max. motor cable length	
Number	1	Shielded	200 m (656.17 ft)
igital outputs		Unshielded	300 m (984.25 ft)
Number as relay changeover contact	2	S	tandards
Output (resistive load)	DC 30 V, 5.0 A		UL, cUL, CE, C-Tick (RCM), EAC, KC F47, REACH
Number as transistor	0	Compliance with standards	
nalog / digital inputs			FMC Div 4: 2004/1907/50
Number	2 (Differential input)	CE marking	EMC Directive 2004/108/EC, Low- Directive 2006/95/EC
Resolution	10 bit		
witching threshold as digital in	put		
0→1	4 V		
1→0	1.6 V		

PTC/ KTY interface

Analog outputs

Number

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\text{C}$

1 (Non-isolated output)



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90%



Converter losses to EN 50598-2*

Efficier	ncy class		IE2
Compa 100%)	rison with the reference o	converter (90% /	-48.20 %
1	^		
100% -	482.7 W (1.55 %)	572.8 W (1.84 %)	731.8 W (2.35 %)
.0070			
	296.5 W (0.95 %)	327.4 W (1.05 %)	375.8 W (1.21 %)
50% →		 	, , , , , , , , , , , , , , , , , , , ,
250/	233.8 W (0.75 %)	246 W (0.79 %)	i
25% →) (- ! !	
		i 	
_		1	

The percentage values show the losses in relation to the rated apparent power of the converter.

50%

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.

Operator panel: Basic Operator Panel (BOP-2)

Screen		Ambient conditions	
Display design	LCD, monochrome	Ambient temperature during	
		Operation	0 50 °C (32 122 °F)
Mech	anical 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	luring
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)		ημιοναίο
		Certificate of suitability	CE, cULus, EAC, KCC, RCM

^{*}converted values