

MLFB-Ordering data

6SL3220-2YE16-0AF0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data		General tech. specifications			
nput			Power factor λ	0.7	70 0.85
Number of phases	3 AC		Offset factor cos φ	0.9	96
Line voltage	380 480 \	V +10 % -20 %	Efficiency η	0.9	98
Line frequency	47 63 Hz		Sound pressure level (1m)	55	dB
Rated voltage	400V IEC	480V NEC	Power loss	0.0	080 kW
Rated current (LO)	5.50 A	4.60 A		I suppression filter for	
Rated current (HO)	3.82 A	3.00 A		Ca	tegory C2
Dutput			Ambie	nt conditio	ns
Number of phases	3 AC				
Rated voltage	400V IEC	480V NEC	Cooling	Air coolir	ig using an integrated fan
Rated power (LO)	2.20 kW	3.00 hp	Cooling air requirement	0.005 m³	² /s (0.177 ft³/s)
Rated power (HO)	1.50 kW	2.00 hp	Installation altitude	1000 m (3280.84 ft)
Rated current (LO)	5.90 A	4.80 A	Ambient temperature		
Rated current (HO)	4.10 A	3.40 A	Operation	-20 45	°C (-4 113 °F)
Rated current (IN)	6.10 A		Transport	-40 70	°C (-40 158 °F)
Max. output current	6.40 A		Storage	-25 55	°C (-13 131 °F)
Pulse frequency	4 kHz		Relative humidity		
Output frequency for vector control	0 200 Hz		Max. operation		10 °C (104 °F), condensatic not permissible
Output frequency for V/f control	0 550 Hz		Closed-loop	control tec	hniques
			V/f linear / square-law / parame	eterizable	Yes
Overload capability			V/f with flux current control (F	CC)	Yes
Low Overload (LO)			V/f ECO linear / square-law		Yes
110% base load current IL for 60 s in a 300 s cycle time		Sensorless vector control		Yes	
			Vector control, with sensor		No
High Overload (HO)			Encoderless torque control		Yes
150% x base load current IH for 60 s within a 6	00 s cycle time		Torque control, with encoder		No

Torque control, with encoder



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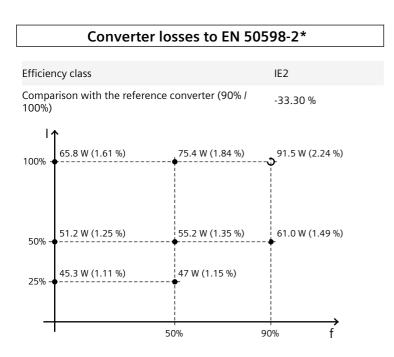
Figure similar

Mechanical	data	Com	munication
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP
Size	FSA	Co	nnections
Net weight	3 kg (7.50 lb)	Signal cable	
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
Height	232 mm (9.13 in)	Line side	
Depth	209 mm (8.23 in)	Version	screw-type terminal
Inputs / out	puts	Conductor cross-section	1.50 2.50 mm² (AWG 18 AWG 14)
Standard digital inputs		Motor end	
Number	6	Version	Screw-type terminals
Switching level: 0→1	11 V	Conductor cross-section	1.50 2.50 mm² (AWG 18 AWG 14)
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	
Number	1	Shielded	200 m (656.17 ft)
Digital outputs		Unshielded	300 m (984.25 ft)
Number as relay changeover contact	2	St	andards
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		
Number as transistor Analog / digital inputs	0		
	0 2 (Differential input)	CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC
Analog / digital inputs		CE marking	
Analog / digital inputs Number	2 (Differential input) 10 bit	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 $0 \rightarrow 1$ $1 \rightarrow 0$	2 (Differential input) 10 bit Dut 4 V	CE marking	
Analog / digital inputs Number Resolution Switching threshold as digital inp $0 \rightarrow 1$ $1 \rightarrow 0$ Analog outputs	2 (Differential input) 10 bit but 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 du	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	



