

MLFB-Ordering data

6SL3220-2YE16-0AF0



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated da	ita		General tech	n. 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)	55 dB
Rated voltage	400V IEC	480V NEC	Power loss	0.080 kW
Rated current (LO)	5.50 A	4.60 A	Filter class (integrated)	RFI suppression filter for
Rated current (HO)	3.82 A	3.00 A	Filter class (integrated)	Filter class (integrated) Category C2
Dutput			Ambien	t conditions
Number of phases	3 AC			Class 3C2, according to IEC 60721-3
Rated voltage	400V IEC	480V NEC	Standard board coating type	3: 2002
Rated power (LO)	2.20 kW	3.00 hp	Cooling	Air cooling using an integrated fan
Rated power (HO)	1.50 kW	2.00 hp		
Rated current (LO)	5.90 A	4.80 A	Cooling air requirement	0.005 m³/s (0.177 ft³/s)
Rated current (HO)	4.10 A	3.40 A	Installation altitude	1000 m (3280.84 ft)
Rated current (IN)	6.10 A		Ambient temperature	
Max. output current	6.40 A		Operation	-20 45 °C (-4 113 °F)
Pulse frequency	4 kHz		Transport	-40 70 °C (-40 158 °F)
Output frequency for vector control	0 200 Hz		Storage	-25 55 ℃ (-13 131 °F)
			Relative humidity	
Output frequency for V/f control	0 550 Hz		Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible

Overload capability

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



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			Figure simil	
Mechanica	l data	Closed-loop co	ntrol techniques	
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameter	r izable Yes	
Size	FSA			
Net weight	3 kg (7.50 lb)	V/f with flux current control (FCC)	Yes	
Width	73 mm (2.87 in)	V/f ECO linear / square-law	Yes	
Height	232 mm (9.13 in)	Sensorless vector control	Yes	
Depth	209 mm (8.23 in)	Vector control, with sensor	No	
Inputs / ou		Encoderless torque control	Yes	
Standard digital inputs		Torque control, with encoder	No	
Number	6			
		Commu	inication	
Switching level: 0→1	11 V	Communication	PROFINET, EtherNet/IP	
Switching level: 1→0	5 V	Conn	ections	
Max. inrush current	15 mA	mA Signal cable		
Fail-safe digital inputs		-	0.15 1.50 mm²	
Number	1	Conductor cross-section	(AWG 24 AWG 16)	
Digital outputs		Line side		
Number as relay changeover contact	2	Version	screw-type terminal	
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	1.50 2.50 mm² (AWG 16 AWG 14)	
Number as transistor	0	Motor end		
Analog / digital inputs		Version	Screw-type terminals	
Number	2 (Differential input)	Conductor cross-section	$1.50 \dots 2.50 \text{ mm}^2$	
Resolution	10 bit	DC link (for braking resistor)	(AWG 16 AWG 14)	
Switching threshold as digital input				
0→1	4 V	PE connection	On housing with M4 screw	
1→0	1.6 V	Max. motor cable length		
Analog outputs		Shielded	150 m (492.13 ft)	
		Unshielded	300 m (984.25 ft)	
Number	1 (Non-isolated output)			
PTC/ KTY interface				

PTC/ KTY interface

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

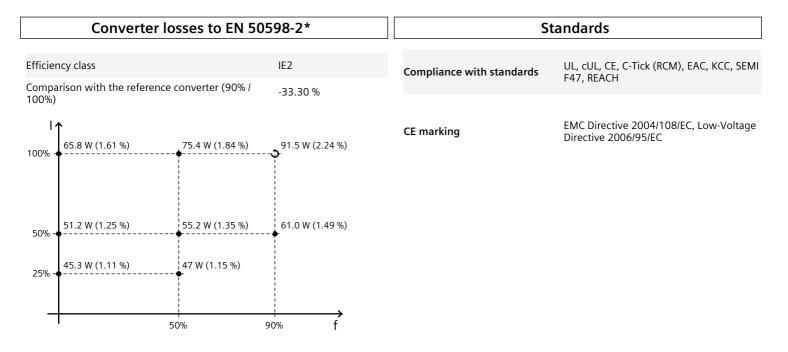


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The percentage values show the losses in relation to the rated apparent power of the converter.

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