

MLFB-Ordering data

6SL3220-2YE52-0AP0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data			General tech	General tech. specifications		
put			Power factor λ	0.90 0.9		
lumber of phases	3 AC		Offset factor cos φ	0.99		
ine voltage	380 480 V	′ +10 % -20 %	Efficiency η	0.98		
ine frequency	47 63 Hz		Sound pressure level (1m)	74 dB		
Rated voltage	400V IEC	480V NEC	Power loss	4.620 kW		
ated current (LO)	374.00 A	356.00 A	Filter class (integrated)	RFI suppres Category C		
Rated current (HO)	330.00 A	327.00 A		Category C		
tput			EMC category (with accessories)	Category C		
lumber of phases	3 AC					
ted voltage	400V IEC	480V NEC	Ambient conditions			
Rated power (LO)	200.00 kW	300.00 hp	Standard board coating type	Class 3C2, accordi 3: 2002		
Rated power (HO)	160.00 kW	200.00 hp				
Rated current (LO)	370.00 A	361.00 A	Cooling	Air cooling using		
Rated current (HO)	302.00 A	302.00 A				
Rated current (IN)	379.00 A		Cooling air requirement	0.210 m³/s (7.41)		
Max. output current	500.00 A		Installation altitude	1000 m (3280.84		
llse frequency	2 kHz		Ambient temperature			
utput frequency for vector control	0 200 Hz		Operation	-20 45 °C (-4		
			Transport	-40 70 °C (-40 .		
utput frequency for V/f control	0 550 Hz		Storage	-25 55 °C (-13 .		
			Relative humidity			
			Max operation	95 % At 40 °C (104		

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

Max. operation

and icing not permissible



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				Figure sim
Mechanical	data	Closed-loop co	ntrol techniques	
Degree of protection	IP20 / UL open type	V/f linear / square-law / paramete	rizable Yes	
Size	FSG			
Net weight	113 kg (249.12 lb)	V/f with flux current control (FCC)		
Width	305 mm (12.01 in)	V/f ECO linear / square-law Sensorless vector control	Yes	
Height	999 mm (39.33 in)	Vector control, with sensor	Yes	
Depth	369 mm (14.53 in)			
Inputs / out	tputs	Encoderless torque control	Yes	
Standard digital inputs		Torque control, with encoder	No	
Number	6	Comm	unication	
Switching level: 0→1	11 V	Communication		
Switching level: 1→0	5 V		PROFIBUS DP	
Max. inrush current	15 mA	Connections		
ail-safe digital inputs		Signal cable		
Number	1	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Digital outputs		Line side		
Number as relay changeover contact	2	Version	M10 screw	
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	35.00 185.00 mm² (AWG 1 MCM 2 x 350)	
Number as transistor	0	Motor end		
Analog / digital inputs		Version	M10 screw	
Number	2 (Differential input)	Conductor cross-section	35.00 185.00 mm² (AWG 1 MCM 2 x 350)	
Resolution	10 bit	DC link (for braking resistor)		
Switching threshold as digital inp	out	PE connection	M10 screw	
0→1	4 V	Max. motor cable length		
1→0	1.6 V	Shielded	150 m (492.13 ft)	
Analog outputs		Sillelueu	130 m (+92.13 m)	
Number	1 (Non-isolated output)			
PTC/ KTY interface				

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

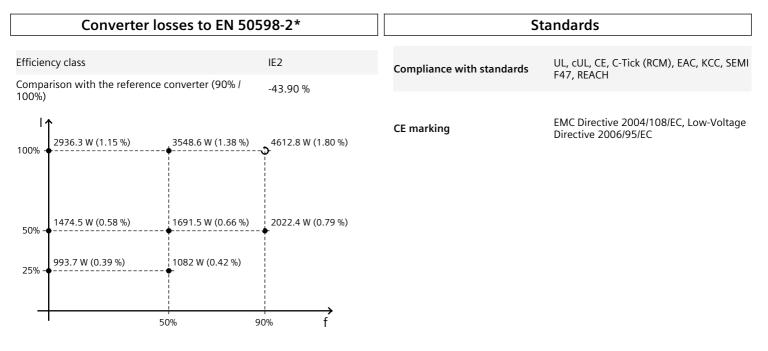


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The percentage values show the losses in relation to the rated apparent power of the converter.

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		Ambi	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)	Certificate of suitability	Approvals CE, cULus, EAC, KCC, RCM		