

MLFB-Ordering data

6SL3220-3YE58-0CP0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data			General tech. specifications		
nput			Power factor λ	0.75 0.93	
Number of phases	3 AC		Offset factor cos φ	0.96	
Line voltage	380 480 V +10 % -10 %		Efficiency η	0.98	
Line frequency	47 63 Hz		Sound pressure level (1m)	74 dB	
Rated voltage	400V IEC	480V NEC	Power loss	7.687 kW	
Rated current (LO)	668.00 A	525.00 A	Filter class (integrated)	RFI suppression	
Rated current (HO)	501.00 A	402.00 A		Category C3	
utput			EMC category (with accessories)	Category C3	
Number of phases	3 AC				
Rated voltage	400V IEC	480V NEC	Ambient conditions		
Rated power (LO)	355.00 kW	450.00 hp	Standard board coating type	Class 3C2, according t 3: 2002	
Rated power (HO)	250.00 kW	300.00 hp			
Rated current (LO)	640.00 A	515.00 A	Cooling	Air cooling using an ir	
Rated current (HO)	570.00 A	394.00 A			
Rated current (IN)	655.00 A		Cooling air requirement	0.362 m³/s (12.784 ft	
Max. output current	864.00 A		Installation altitude	1000 m (3280.84 ft)	
Pulse frequency	4 kHz		Ambient temperature		
Output frequency for vector control	0 100 Hz		Operation	0 45 °C (32 113 °	
			Transport	-40 70 °C (-40 15	
Output frequency for V/f control	0 100 Hz		Storage	-25 55 °C (-13 13	
			Relative humidity		
			Max operation	95 % At 40 °C (104 °F)	

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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Mechanical data		Closed-loop co	ontrol techniques	
Degree of protection	IP20 / UL open type	•	•	
Size	FSH	V/f linear / square-law / paramete	erizable Yes	
Net weight	157 kg (346.13 lb)	V/f with flux current control (FCC	:) Yes	
Width	548 mm (21.57 in)	V/f ECO linear / square-law	Yes	
Height	1695 mm (66.73 in)	Sensorless vector control	Yes	
		Vector control, with sensor	No	
Depth	393 mm (15.47 in)	Encoderless torque control	Yes	
Inputs / out itandard digital inputs	puts			
	<i>.</i>	Torque control, with encoder	No	
Number	6	Communication		
Switching level: 0→1	11 V	Communication	PROFIBUS DP	
Switching level: 1→0	5 V	Connections		
Max. inrush current	15 mA	Signal cable		
ail-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	M12 screw	
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	240.00 mm² (MCM 2 x 500 MCM 4 x 500)	
Number as transistor	0	Motor end		
Analog / digital inputs		Version	M12 screw	
Number	2 (Differential input)	Conductor cross-section 240.00 mm ² (MCM 2 x 500 MCM 4 x 50		
Resolution	10 bit	(MCM 2 x 500 MCM 4 x DC link (for braking resistor)		
witching threshold as digital inp	but	PE connection	M12 corour	
0→1	4 V		M12 screw	
1→0	1.6 V	Max. motor cable length	150 (402.12.5)	
Analog outputs		Shielded	150 m (492.13 ft)	
Number	1 (Non-isolated output)			
PTC/ KTY interface				

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

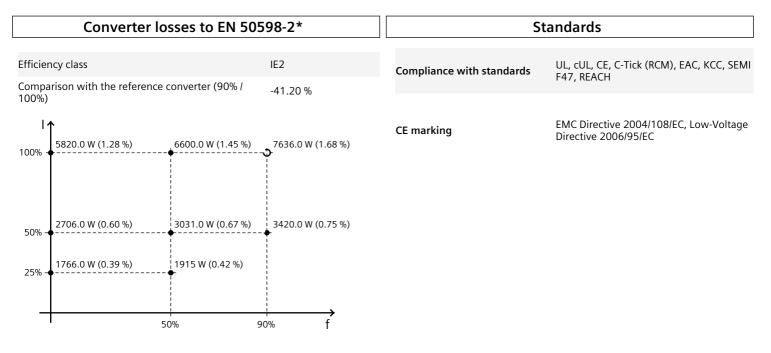


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The percentage values show the losses in relation to the rated apparent power of the converter.

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: Intelligent Operator Panel (IOP-2)

Screen		Ambient conditions		
Display design	LCD colors	Ambient temperature during		
Screen resolution	320 x 240 Pixel	Operation	0 50 °C (32 122 °F)	
			55 °C only with door mounting kit	
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	0.13 kg (0.30 lb)	Relative humidity at 25°C	during	
Width	70.0 mm (2.76 in)	Max. operation	95 %	
Height	106.85 mm (4.21 in)			
-			Approvals	
Depth	19.65 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM	