

MLFB-Ordering data

6SL3220-3YE16-0AF0



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data			General tecl	General tech. specifications	
Input			Power factor λ	0.70 0.85	
Number of phases	3 AC		Offset factor cos φ	0.96	
Line voltage	380 480 V +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 Category C2	
Rated current (HO)	3.82 A	3.00 A	Filter class (integrated)		
Output			Ambient conditions		
Number of phases	3 AC		Standard board coating type	Class 3C2, according to IEC 60721-3- 3: 2002	
Rated voltage	400V IEC	480V NEC			
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 °C (-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 s	
Mechanical data		Closed-loop control techniques		
Degree of protection	IP20 / UL open type	V/f linear / square-law / paramete	rizable Yes	
Size	FSA			
Net weight	3 kg (7.50 lb)	V/f with flux current control (FCC)		
Width	73 mm (2.87 in)	V/f ECO linear / square-law	Yes	
Height	232 mm (9.13 in)	Sensorless vector control Vector control, with sensor	Yes	
Depth	209 mm (8.23 in)			
Inputs / outputs		Encoderless torque control	Yes	
tandard digital inputs		Torque control, with encoder	No	
Number	6	Communication		
Switching level: 0→1	11 V	Communication Communication PROFINET, EtherNet/IP		
Switching level: 1→0	5 V			
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)	
ligital 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		
nalog / digital inputs		Version	Screw-type terminals	
Number	2 (Differential input)	Conductor cross-section	1.50 2.50 mm² (AWG 16 AWG 14)	
Resolution	10 bit	DC link (for braking resistor)		
Switching threshold as digital input		PE connection	On housing with M4 screw	
0→1	4 V	Max. motor cable length	-	
1→0	1.6 V	Shielded	150 m (492.13 ft)	
nalog outputs		Unshielded	300 m (984.25 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 $\pm 5~^\circ\mathrm{C}$

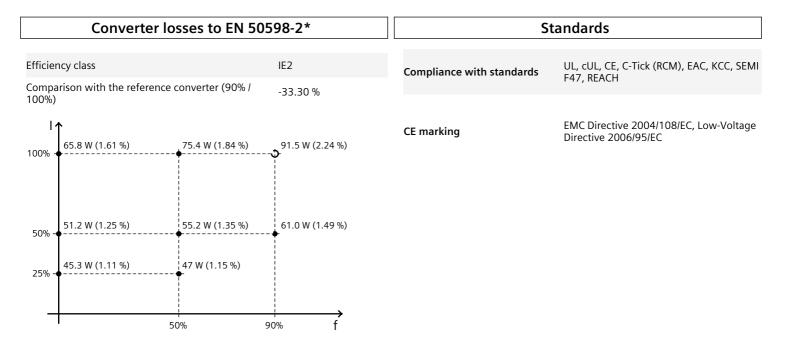


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The percentage values show the losses in relation to the rated apparent power of the converter.

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)	
	520 / 2 10 11/01		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	