

MLFB-Ordering data

6SL3220-1YE32-0UP0



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

Remarks :

ltem no. :	
Consignment no. :	
Project :	

Rated data			General tech	General tech. specifications		
nput			Power factor λ	0.90 0.95		
Number of phases	3 AC		Offset factor cos φ	0.99		
Line voltage	380 480 V +10 % -20 %		Efficiency η	0.98		
Line frequency	47 63 Hz		Sound pressure level (1m)	70 dB		
Rated voltage	400V IEC	480V NEC	Power loss	0.680 kW		
Rated current (LO)	44.00 A	37.00 A	Filter class (integrated)	Unfiltered		
Rated current (HO)	38.00 A	35.00 A				
Dutput			EMC category (with accessories)	without		
Number of phases	3 AC					
Rated voltage	400V IEC	480V NEC	Ambient conditions			
Rated power (LO)	22.00 kW	30.00 hp	Standard board coating type	Class 3C2, according to 3: 2002		
Rated power (HO)	18.50 kW	20.00 hp				
Rated current (LO)	45.00 A	40.00 A	Cooling	Air cooling using an in		
Rated current (HO)	38.00 A	34.00 A				
Rated current (IN)	47.00 A		Cooling air requirement	0.055 m³/s (1.942 ft³/s		
Max. output current	61.00 A		Installation altitude	1000 m (3280.84 ft)		
Pulse frequency	4 kHz		Ambient temperature			
Output frequency for vector control	0 200 Hz	0 200 Hz Operation	Operation	-20 45 °C (-4 113		
			Transport	-40 70 °C (-40 15		
Output frequency for V/f control	0 550 Hz		Storage	-25 55 °C (-13 13		
			Relative humidity			

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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Mechanical data		Closed-loop co	ntrol techniques	
Degree of protection	IP20 / UL open type		izzkla Voc	
Size	FSD	V/f linear / square-law / parameter	i zable Yes	
Net weight	17 kg (37.48 lb)	V/f with flux current control (FCC)	Yes	
Width	200 mm (7.87 in)	V/f ECO linear / square-law	Yes	
Height	472 mm (18.58 in)	Sensorless vector control	Yes	
Depth	248 mm (9.76 in)	Vector control, with sensor	No	
Inputs / outputs		Encoderless torque control	Yes	
Standard digital inputs		Torque control, with encoder	No	
Number	6		• .•	
Switching level: 0→1	11 V	Communication		
Switching level: 1→0	5 V	Communication	PROFIBUS DP	
Max. inrush current	15 mA	Connections		
Fail-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	screw-type terminal	
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)	
Number as transistor	0	Motor end		
Analog / digital inputs		Version	Screw-type terminals	
Number	2 (Differential input)	Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)	
Resolution	10 bit	DC link (for braking resistor)	(1000 / 100 2)	
Switching threshold as digital in	put			
0→1	4 V	PE connection	Screw-type terminals	
1→0	1.6 V	Max. motor cable length		
Analog outputs		Shielded	200 m (656.17 ft)	
Number	1 (Non-isolated output)	— Unshielded	300 m (984.25 ft)	
	•			
PTC/ KTY interface				

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

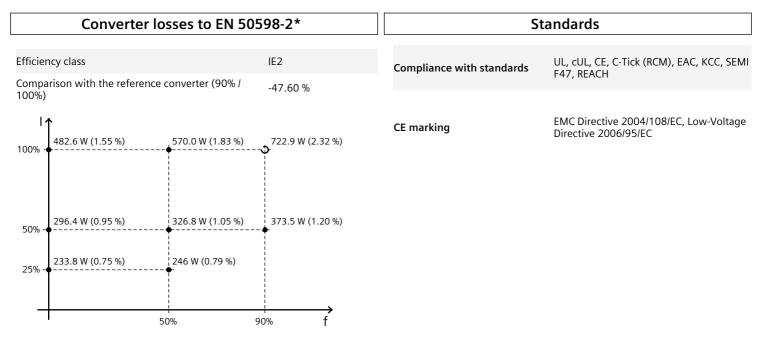


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Figure similar



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