

MLFB-Ordering data

6SL3220-1YE48-0UB0



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

Item no. :
Consignment no. :
Project :

Rated data			General tech.	General tech. specifications		
Input			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)	72 dB		
Rated voltage	400V IEC	480V NEC	Power loss	2.350 kW		
Rated current (LO)	247.00 A	232.00 A	Filter class (integrated)	Unfiltered		
Rated current (HO)	218.00 A	191.00 A				
Dutput			EMC category (with accessories)	without		
Number of phases	3 AC					
Rated voltage	400V IEC	480V NEC	Ambient conditions			
Rated power (LO)	132.00 kW	200.00 hp	Standard board coating type	Class 3C2, according to IEC 60721-3 3: 2002		
Rated power (HO)	110.00 kW	125.00 hp				
Rated current (LO)	250.00 A	240.00 A	Cooling	Air cooling using an integrated fan		
Rated current (HO)	205.00 A	180.00 A		/ /		
Rated current (IN)	256.00 A		Cooling air requirement	0.153 m³/s (5.403 ft³/s)		
Max. output current	338.00 A		Installation altitude	1000 m (3280.84 ft)		
Pulse frequency	2 kHz		Ambient temperature			
Output frequency for vector control	0 200 Hz		Operation	-20 45 °C (-4 113 °F)		
			Transport	-40 70 °C (-40 158 °F)		
Output frequency for V/f control	0 550 Hz		Storage	-25 55 °C (-13 131 °F)		
			Relative humidity			
			Max. operation	95 % At 40 °C (104 °F), condensatio 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		Figure similar Closed-loop control techniques		
Degree of protection IP20 / UL open type				
Size	FSF	V/f linear / square-law / parameter	r izable Yes	
Net weight	67 kg (147.71 lb)	V/f with flux current control (FCC)	Yes	
Width	305 mm (12.01 in)	V/f ECO linear / square-law	Yes	
Height	709 mm (27.91 in)	Sensorless vector control	Yes	
Depth	369 mm (14.53 in)	Vector control, with sensor	No	
Inputs / out		Encoderless torque control	Yes	
Standard digital inputs	.puts			
Number	6	Torque control, with encoder	No	
		Communication		
Switching level: 0→1	11 V	Communication	USS, Modbus RTU, BACnet MS/TP	
Switching level: 1→0	5 V	Connections		
Max. inrush current	15 mA	Signal cable		
Fail-safe digital inputs		Conductor cross-section	0.15 1.50 mm²	
Number	1		(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	35.00 120.00 mm² (AWG 1 AWG 4/0)	
Number as transistor	0	Motor end		
Analog / digital inputs		Version	M10 screw	
Number	2 (Differential input)	Conductor cross-section	35.00 120.00 mm² (AWG 1 AWG 4/0)	
Resolution	10 bit	DC link (for braking resistor)		
Switching threshold as digital in	out	PE connection	M10 screw	
0→1	4 V	Max. motor cable length		
1→0	1.6 V	Shielded	300 m (984.25 ft)	
Analog outputs		Unshielded	450 m (1476.38 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 $\pm 5~^\circ\mathrm{C}$

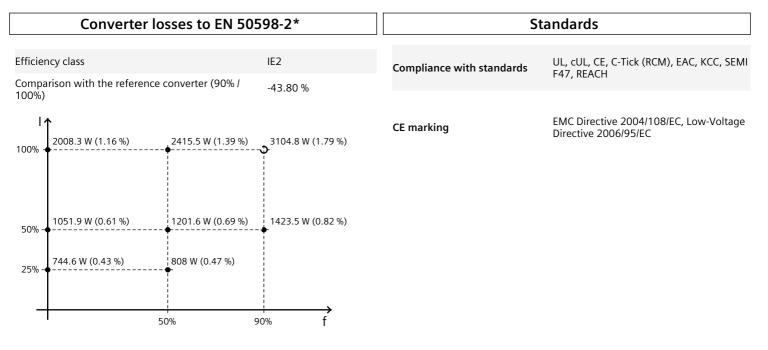


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Figure similar



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