

# **MLFB-Ordering data**

6SL3220-1YE48-0UF0



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

Item no. :
Consignment no. :
Project :

Rated data			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	The class (integrated)		
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 integr		
Rated current (HO)	205.00 A	180.00 A		/ /	
Rated current (IN)	256.00 A		Cooling air requirement0.153 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		Closed-loop co	ntrol techniques	Figure similar
			introl techniques	
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameter	izable Yes	
Size	FSF	V/f with flux current control (FCC)	Yes	
Net weight	67 kg (147.71 lb)	V/f ECO linear / square-law	Yes	
Width	305 mm (12.01 in)	Sensorless vector control	Yes	
Height	709 mm (27.91 in)	Vector control, with sensor	No	
Depth	369 mm (14.53 in)	Encoderless torque control	Yes	
Inputs / outputs				
Standard digital inputs		Torque control, with encoder	No	
Number	6	Communication		
Switching level: 0→1	11 V	Communication	PROFINET, EtherNet/IP	
Switching level: 1→0	5 V			
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	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 input		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  $\pm 5~^\circ\mathrm{C}$ 

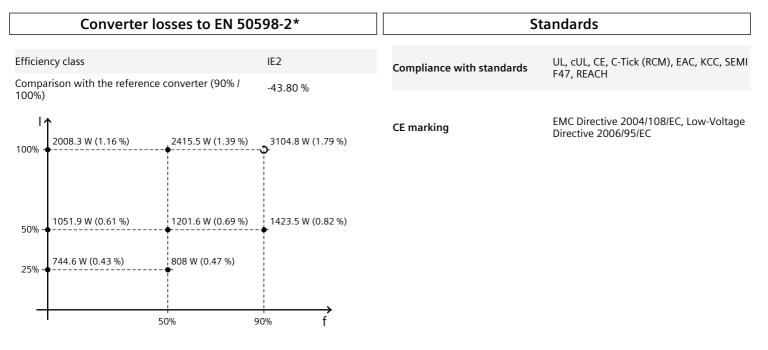


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Figure similar



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