

MLFB-Ordering data

6SL3220-2YE10-0AP0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated da	ita		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 \	/ +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	0.040 kW
Rated current (LO)	2.10 A	2.00 A	Filter class (integrated)	RFI suppression filter for Category C2
Rated current (HO)	1.62 A	1.60 A		
Output			EMC category (with accessories)	Category C2
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC	Ambient conditions	
Rated power (LO)	0.75 kW	1.00 hp	Standard board coating type	Class 3C2, according to IEC 60721-3- 3: 2002
Rated power (HO)	0.55 kW	0.75 hp		
Rated current (LO)	2.20 A	2.10 A	Cooling	Air cooling using an integrated fan
Rated current (HO)	1.70 A	1.60 A		
Rated current (IN)	2.30 A		Cooling air requirement	0.005 m³/s (0.177 ft³/s)
Max. output current	2.70 A		Installation altitude	1000 m (3280.84 ft)
Pulse frequency	4 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), 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 similar **Mechanical data Closed-loop control techniques** Degree of protection IP20 / UL open type V/f linear / square-law / parameterizable Yes Size FSA V/f with flux current control (FCC) Yes Net weight 3 kg (7.50 lb) V/f ECO linear / square-law Yes Width 73 mm (2.87 in) Sensorless vector control Yes 232 mm (9.13 in) Height Vector control, with sensor No Depth 218 mm (8.58 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 PROFIBUS DP Switching level: 1→0 5 V Connections Max. inrush current 15 mA Signal cable Fail-safe digital inputs 0.15 ... 1.50 mm² Conductor cross-section Number (AWG 24 ... AWG 16) **Digital outputs** Line side screw-type terminal Version Number as relay changeover contact 2 1.50 ... 2.50 mm² Conductor cross-section Output (resistive load) DC 30 V, 5.0 A (AWG 16 ... AWG 14) Number as transistor Motor end Λ Version Screw-type terminals Analog / digital inputs 1.50 ... 2.50 mm² 2 (Differential input) Number Conductor cross-section (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) Analog outputs Number 1 (Non-isolated output) PTC/ KTY interface

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm5~^\circ\text{C}$

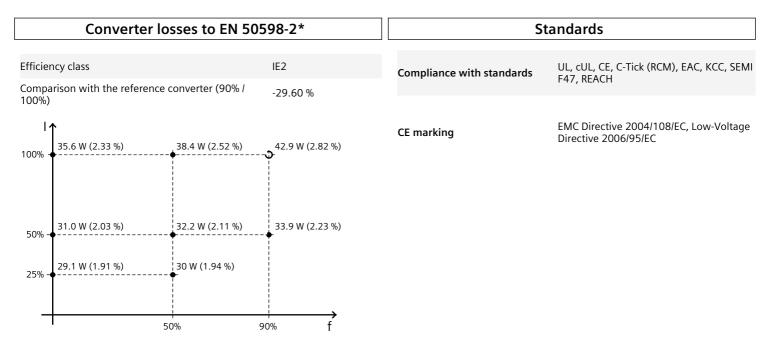


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Figure similar



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

Operator panel: Basic Operator Panel (BOP-2)

S	creen	Ambient conditions Ambient temperature during		
Display design	LCD, monochrome			
		Operation	0 50 °C (32 122 °F)	
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	0.14 kg (0.31 lb)	Relative humidity at 25°C d	uring	
Width	70.0 mm (2.76 in)	Max. operation	95 %	
Height	106.85 mm (4.21 in)		Approvals	
Depth	19.60 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM	