

MLFB-Ordering data

6SL3220-1YE30-0AF0



Figure similar

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)	70 dB
Rated voltage	400V IEC	480V NEC	Power loss	0.500 kW
Rated current (LO)	37.00 A	32.00 A	Filter class (integrated)	RFI suppression filter for Category C2
Rated current (HO)	33.00 A	28.00 A		
Output			EMC category (with accessories)	Category C2
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC	Ambient conditions	
Rated power (LO)	18.50 kW	25.00 hp	Standard board coating type	Class 3C2, according to IEC 60721-3- 3: 2002
Rated power (HO)	15.00 kW	20.00 hp		
Rated current (LO)	38.00 A	34.00 A	Cooling	Air cooling using an integrated fan
Rated current (HO)	32.00 A	27.00 A		
Rated current (IN)	39.00 A		Cooling air requirement	0.055 m³/s (1.942 ft³/s)
Max. output current	51.30 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 simila **Mechanical data Closed-loop control techniques** Degree of protection IP20 / UL open type V/f linear / square-law / parameterizable Yes FSD Size V/f with flux current control (FCC) Yes Net weight 18 kg (39.68 lb) V/f ECO linear / square-law Yes Width 200 mm (7.87 in) Sensorless vector control Yes 472 mm (18.58 in) Height Vector control, with sensor No Depth 248 mm (9.76 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 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 Version screw-type terminal Number as relay changeover contact 2 10.00 ... 35.00 mm² Conductor cross-section Output (resistive load) DC 30 V, 5.0 A (AWG 8 ... AWG 2) Number as transistor Motor end Λ Version Screw-type terminals Analog / digital inputs 10.00 ... 35.00 mm² 2 (Differential input) Number Conductor cross-section (AWG 8 ... AWG 2) Resolution 10 bit DC link (for braking resistor) Switching threshold as digital input PE connection Screw-type terminals 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 $\pm 5~^\circ\text{C}$

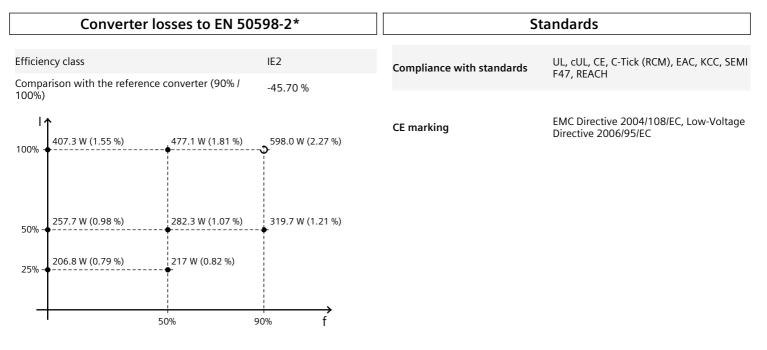


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The percentage values show the losses in relation to the rated apparent power of the converter.

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