

## **MLFB-Ordering data**

6SL3210-1KE15-8AF2



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General tech. specifications	
nput		Power factor λ	0.70 0.85
Number of phases	3 AC	Offset factor cos φ	0.95
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97
Line frequency	47 63 Hz	Sound pressure level (1m)	49 dB
Rated current (LO)	7.40 A	Power loss	0.08 kW
Rated current (HO)	6.00 A	Filter class (integrated)	Class A
Output		Ambior	nt conditions
Number of phases	3 AC	Ambier	
Rated voltage	400 V	Cooling	Air cooling using an integrated fan
Rated power IEC 400V (LO)	2.20 kW	Casling air requirement	0.005 = 3/c (0.177 ft 3/c)
Rated power NEC 480V (LO)	3.00 hp	Cooling air requirement	0.005 m³/s (0.177 ft³/s)
Rated power IEC 400V (HO)	1.50 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (HO)	2.00 hp	Ambient temperature	
Rated current (IN)	5.80 A	Operation	-10 40 °C (14 104 °F)
Rated current (LO)	5.60 A	Transport	-40 70 °C (-40 158 °F)
Rated current (HO)	4.10 A	Storage	-40 70 °C (-40 158 °F)
Max. output current	8.20 A	Relative humidity	
Pulse frequency	4 kHz	Max. operation	95 % At 40 °C (104 °F), condensatior and icing not permissible
Output frequency for vector control	0 240 Hz		
		Closed-loop o	control techniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parameterizable Yes	
		V/f with flux current control (FC	C) Yes
Overload capability		V/f ECO linear / square-law	Yes
Low Overload (LO)		Sensorless vector control	Yes
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a		Vector control, with sensor	No

150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time

#### High Overload (HO)

200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time





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Mechanical data Communication Degree of protection IP20 / UL open type PROFINET, EtherNet/IP Communication Size FSAA Connections Net weight 1.40 kg (3.09 lb) Signal cable Width 73 mm (2.87 in) Conductor cross-section 0.15 ... 1.50 mm<sup>2</sup> (AWG 24 ... AWG 16) Height 173 mm (6.81 in) Line side Depth 160 mm (6.30 in) Version Plug-in screw terminals Inputs / outputs Conductor cross-section 1.00 ... 2.50 mm<sup>2</sup> (AWG 18 ... AWG 14) **Standard digital inputs** Motor end Number 6 Version Plug-in screw terminals Switching level: 0→1 11 V **Conductor cross-section** 1.00 ... 2.50 mm<sup>2</sup> (AWG 18 ... AWG 14) Switching level: 1→0 5 V DC link (for braking resistor) Max. inrush current 15 mA Version Plug-in screw terminals Fail-safe digital inputs **Conductor cross-section** 1.00 ... 2.50 mm<sup>2</sup> (AWG 18 ... AWG 14) Number Line length, max. 15 m (49.21 ft) **Digital outputs** PE connection On housing with M4 screw Number as relay changeover contact 1 Max. motor cable length **Output (resistive load)** DC 30 V, 0.5 A Shielded 50 m (164.04 ft) Number as transistor Unshielded 100 m (328.08 ft) 1 **Standards** Output (resistive load) DC 30 V, 0.5 A Analog / digital inputs Compliance with standards UL, cUL, CE, C-Tick (RCM) Number 1 (Differential input) EMC Directive 2004/108/EC, Low-Voltage **CE** marking Resolution 10 bit Directive 2006/95/EC

# Switching threshold as digital input

0→1	4 V
1→0	1.6 V
Analog outputs	
Number	1 (Non-isolated output)

# PTC/ KTY interface

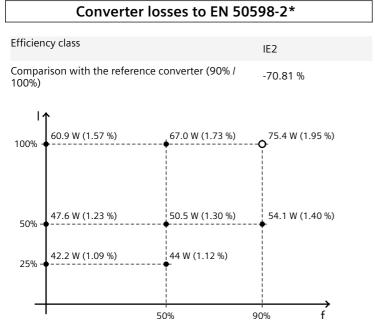
1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy ±5 °C





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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



Figure similar

