

# **Ordering data**

### 6SL3210-1KE14-3UP1



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

Item no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
Input		Power factor λ	0.	70 0.85
Number of phases	3 AC	Offset factor cos φ	0.9	95
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	97
Line frequency	47 63 Hz	Sound pressure level (1m)	52	2 dB
Rated current (LO)	5.50 A	Power loss	0.0	07 kW
Rated current (HO)	4.50 A	Ambient conditions		
Output		O a library	<b>A</b> ! ! ! .	
Number of phases	3 AC	Cooling	Air coolir	ng using an integrated fan
Rated voltage	400 V	Cooling air requirement	0.005 m <sup>3</sup>	<sup>3</sup> /s
Rated power (LO)	1.50 kW	Installation altitude	1000 m	
Rated power (HO)	1.10 kW	Ambient temperature		
Rated current (IN)	4.50 A	Operation	-10 40	°C (14 104 °F)
Rated current (LO)	4.10 A	Transport	-40 70	°C (-40 158 °F)
Rated current (HO)	3.10 A	Storage	-40 70	°C (-40 158 °F)
Max. output current	6.20 A	Relative humidity		
Pulse frequency	4 kHz			40 °C (104 °F),
Output frequency for vector control	0 240 Hz	Max. operation	condens permissi	ation and icing not ble
Output frequency for V/f control	0 650 Hz	Closed-loop control techniques		
In firmware V4.7 and higher, due to leg		V/f linear / square-law / paramet	terizable	Yes
output frequency is restricted to 550 Hz		V/f with flux current control (FC	C)	Yes

# Overload capability

## Low Overload (LO)

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

Olosed-loop collitol tec	iiiiques
V/f linear / square-law / parameterizable	Yes
V/f with flux current control (FCC)	Yes
V/f ECO linear / square-law	Yes
Sensorless vector control	Yes
Vector control, with sensor	No
Encoderless torque control	No
Torque control, with encoder	No

Communication	PROFIBUS DP

Communication

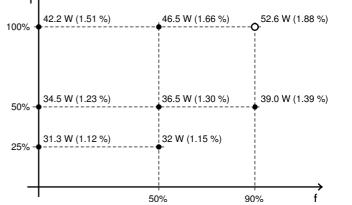


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Mechanical data		Cor	Connections		
Degree of protection	IP20 / UL open type	Signal cable			
Size	FSA	Conductor cross-section	0.15 1.50 mm² (28 16 AWG)		
Net weight	1.70 kg	Line side			
Width	73.0 mm	Version	Plug-in screw-type terminals		
Height	196.0 mm	Conductor cross-section	1.00 2.50 mm² (16 14 AWG)		
Depth	203.0 mm	Motor end			
Inputs/ out	puts	Version	Plug-in screw terminals		
tandard digital inputs		Conductor cross-section	1.00 2.50 mm² (16 14 AWG)		
Number	6	DC link (for braking resistor	)		
Switching level: 0→1	11 V	Version	Plug-in screw terminals		
Switching level: 1→0	5 V	Conductor cross-section	1.00 2.50 mm² (16 14 AWG)		
Max. inrush current	15 mA	PE connection	On housing with M4 screw		
ail-safe digital inputs		Max. motor cable length			
Number	1	Shielded	50 m		
igital outputs		Unshielded	100 m		
Number as relay changeover contact	1	Converter los	Converter losses to EN 50598-2*		
Output (resistive load)	DC 30 V, 1 A	Efficiency class	IF.		
Number as transistor	1	Comparison with the reference co	00verter (90% /		
Output (resistive load)	DC 30 V, 1 A	100%)	-77.16 %		
nalog/ digital inputs					
Number	1 (Differential input)	42.2 W (1.51 %)	46.5 W (1.66 %) 52.6 W (1.88 %)		



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.

\*calculated values; increased by 10% according to the standard

# PTC/ KTY interface

**Analog outputs** 

Number

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy  $\pm 5~^{\circ}\text{C}$ 

1 (Non-isolated output)

#### **Standards**

Compliance with standards CE, cULus, c-tick

CE marking EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC