

# **Ordering data**

# 6SL3210-1KE11-8UB1



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.	95	
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.	97	
Line frequency	47 63 Hz	Sound pressure level (1m)	52	2 dB	
Rated current (LO)	2.30 A	Power loss	0.	04 kW	
Rated current (HO)	1.90 A	Ambient conditions			
Output		Ocalina	A : !:		
Number of phases	3 AC	Cooling	Air cooiii	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)	0.55 kW	Installation altitude	1000 m		
Rated power (HO)	0.37 kW	Ambient temperature			
Rated current (IN)	1.90 A	Operation	-10 40	°C (14 104 °F)	
Rated current (LO)	1.70 A	Transport	-40 70	°C (-40 158 °F)	
Rated current (HO)	1.30 A	Storage	-40 70	°C (-40 158 °F)	
Max. output current	2.60 A	Relative humidity			
Pulse frequency	4 kHz			40 °C (104 °F),	
Output frequency for vector control	0 240 Hz	Max. operation		condensation and icing not permissible	
Output frequency for V/f control	0 650 Hz	Closed-loop control techniques			
	mware V4.7 and higher, due to legal requirements, the maximum  V/f linear / square-law / parameterizable  Yes		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

Closed-loop control techniques		
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					

Communication RS485

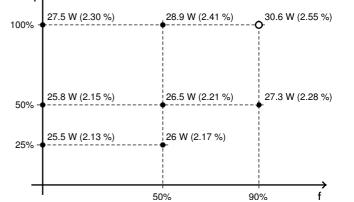


#### Ordering data

#### 6SL3210-1KE11-8UB1



Mechanical data		Con	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/ outputs		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	IFO.		
Number as transistor	1	Comparison with the reference co	IE2		
Output (resistive load)	DC 30 V, 1 A	100%)	-80.71 %		
nalog/ digital inputs					
Number	1 (Differential input)	27.5 W (2.30 %)	28.9 W (2.41 %) 30.6 W (2.55 %)		



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 UL, cUL, CE, C-Tick

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