

MLFB-Ordering data

6SL3210-1KE12-3AF1



Client order no.:

Order no.:

Offer no.:

Offer no.:

Project:

Remarks:

Rated da	General tech. specifications					
Input		Power factor λ	0.7	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	dB		
Rated current (LO)	2.90 A	Power loss	0.0	05 kW		
Rated current (HO)	2.50 A	Ambient conditions		ns		
Output			A: 1:			
Number of phases	3 AC	Cooling	Air cooling using an integrated fan			
Rated voltage	400 V	Cooling air requirement	0.005 m³	0.005 m³/s		
Rated power (LO)	0.75 kW	Installation altitude 1000 m				
Rated power (HO)	0.55 kW	Ambient temperature				
Rated current (IN)	2.30 A	Operation -10 40 °C (14		°C (14 104 °F)		
Rated current (LO)	2.20 A	Transport -40 70 °C (-40		°C (-40 158 °F)		
Rated current (HO)	1.70 A	Storage -40 70 °C (-40		°C (-40 158 °F)		
Max. output current	3.40 A	Relative humidity				
Pulse frequency	4 kHz	95 % At 40 °C (104 ° and icing not permis		10 °C (104 °F), condensation		
Output frequency for vector control	0 240 Hz			not permissible		
Output frequency for V/f control 0 550 Hz		Closed-loop control techniques				
		V/f linear / square-law / parame	terizable	Yes		
		V/f with flux current control (FC	.C)	Yes		
		V/f ECO linear / square-law		Yes		
Overload capability		Sensorless vector control		Yes		
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)		Vector control, with sensor		No		
		Encoderless torque control		No		
		Torque control, with encoder		No		
200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time		Communication				
		Communication	PROFINET			



MLFB-Ordering data

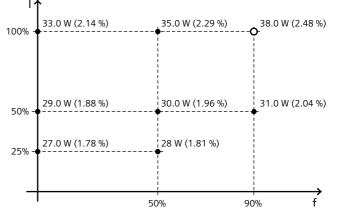
Analog outputs

6SL3210-1KE12-3AF1



Fi	У	и	C	Э	1	ı		ı	ı	C

Mechanical data		Co	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 terminals			
Height	196.0 mm	Conductor cross-section	1.00 2.50 mm ² (16 14 AWG)			
Depth	225.0 mm	Motor end				
Inputs / ou	tputs	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 losses to EN 50598-2*				
Output (resistive load)	DC 30 V, 0.5 A	Efficiency class				
Number as transistor	1		IE2			
Output (resistive load)	DC 30 V, 0.5 A	Comparison with the reference converter (90% / 100%)				
nalog / digital inputs						
Number	1 (Differential input)	33.0 W (2.14 %)	\$35.0 W (2.29 %) \$4.0 W (2.48 %)			



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 (f) 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

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					
Standards					
Compliance with standards	UL, cUL, CE, C-Tick (RCM)				
CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC				