

Article No. : **6SL3210-1KE22-6AF1**



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data		Inputs / outputs	
Input		Standard digital inputs	
Number of phases		Number	6
Line voltage		Switching level: 0→1	11 V
Line frequency		Switching level: 1→0	5 V
Rated current (LO)		Max. inrush current	15 mA
Rated current (HO)		Fail-safe digital inputs	
Number of phases		Number	1
Rated voltage		Digital outputs	
Rated power (LO)		Number as relay changeover contact	1
Rated power (HO)		Output (resistive load)	DC 30 V, 0.5 A
Rated current (LO)		Number as transistor	1
Rated current (HO)		Output (resistive load)	DC 30 V, 0.5 A
Rated current (IN)		Analog / digital inputs	
Max. output current		Number	1 (Differential input)
Pulse frequency		Resolution	10 bit
Output frequency for vector control		Switching threshold as digital input	
Output frequency for V/f control		0→1	4 V
Overload capability		1→0	1.6 V
Low Overload (LO)		Analog outputs	
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Number	1 (Non-isolated output)
High Overload (HO)		PTC/ KTY interface	
200% base load current IH for 3 s, followed by 150% base load current IH for 57 s in a 300 s cycle time		1 motor temperature sensor input, sensors that can be connected PTC, KTY and Thermo-Click, accuracy ± 5 °C	
General tech. specifications		Closed-loop control techniques	
Power factor λ	0.70 ... 0.85	V/f linear / square-law / parameterizable	Yes
Offset factor $\cos \varphi$	0.95	V/f with flux current control (FCC)	Yes
Efficiency η	0.97	V/f ECO linear / square-law	Yes
Sound pressure level (1m)	66 dB	Sensorless vector control	Yes
Power loss	298.0 W	Vector control, with sensor	No
Filter class (integrated)	Class A	Encoderless torque control	No
Communication		Torque control, with encoder	No
Communication	PROFINET, EtherNet/IP		

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Ambient conditions

Cooling	Air cooling using an integrated fan
Cooling air requirement	0.018 m ³ /s (0.636 ft ³ /s)
Installation altitude	1,000 m (3,280.84 ft)

Ambient temperature

Operation	-10 ... 40 °C (14 ... 104 °F)
Transport	-40 ... 70 °C (-40 ... 158 °F)
Storage	-25 ... 55 °C (-13 ... 131 °F)

Relative humidity

Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible
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Connections

Signal cable

Conductor cross-section	0.15 ... 1.50 mm ² (AWG 24 ... AWG 16)
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Line side

Version	Plug-in screw terminals
Conductor cross-section	6.00 ... 16.00 mm ² (AWG 10 ... AWG 6)

Motor end

Version	Plug-in screw terminals
Conductor cross-section	6.00 ... 16.00 mm ² (AWG 10 ... AWG 6)

DC link (for braking resistor)

Version	Plug-in screw terminals
Conductor cross-section	6.00 ... 16.00 mm ² (AWG 10 ... AWG 6)
Line length, max.	15 m (49.21 ft)
PE connection	On housing with M4 screw

Max. motor cable length

Shielded	50 m (164.04 ft)
Unshielded	100 m (328.08 ft)

Mechanical data

Degree of protection	IP20 / UL open type
Frame size	FSC
Net weight	4.40 kg (9.70 lb)

Dimensions

Width	140 mm (5.51 in)
Height	295 mm (11.61 in)
Depth	205 mm (8.19 in)

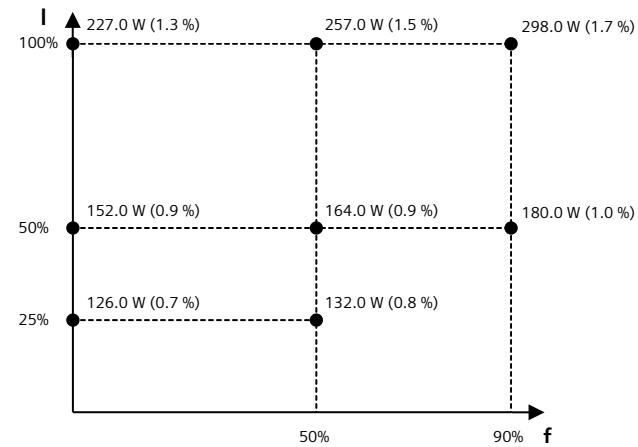
Standards

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

Converter losses to IEC61800-9-2*

Efficiency class IE2

Comparison with the reference converter (90% / 100%) 33.2 %



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 IEC61800-9-2) 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

¹⁾The output current and HP ratings are valid for the voltage range 440V-480V