

Article No. : 6SL3210-1KE11-8AP2



Figure similar

Client order no. :  
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Item no. :  
Consignment no. :  
Project :

Rated data		Inputs / outputs	
<b>Input</b>		<b>Standard digital inputs</b>	
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)		<b>Fail-safe digital inputs</b>	
Number of phases		Number	1
<b>Rated voltage</b>		<b>Digital outputs</b>	
400V IEC		Number as relay changeover contact	1
480V NEC <sup>1)</sup>		Output (resistive load)	DC 30 V, 0.5 A
Rated power (LO)		Number as transistor	1
0.55 kW		Output (resistive load)	DC 30 V, 0.5 A
Rated power (HO)		<b>Analog / digital inputs</b>	
0.37 kW		Number	1 (Differential input)
Rated current (LO)		Resolution	10 bit
1.70 A		<b>Switching threshold as digital input</b>	
Rated current (HO)		0→1	4 V
1.30 A		1→0	1.6 V
Rated current (IN)		<b>Analog outputs</b>	
1.80 A		Number	1 (Non-isolated output)
Max. output current		<b>PTC/ KTY interface</b>	
2.60 A		1 motor temperature sensor input, sensors that can be connected PTC, KTY and Thermo-Click, accuracy ±5 °C	
Pulse frequency		<b>Closed-loop control techniques</b>	
4 kHz		V/f linear / square-law / parameterizable	
Output frequency for vector control		Yes	
0 ... 240 Hz		V/f with flux current control (FCC)	
Output frequency for V/f control		Yes	
0 ... 550 Hz		V/f ECO linear / square-law	
<b>Overload capability</b>		Yes	
Low Overload (LO)		Sensorless vector control	
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Vector control, with sensor	
High Overload (HO)		Encoderless torque control	
200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time		Torque control, with encoder	
<b>General tech. specifications</b>			
Power factor λ		0.70 ... 0.85	
Offset factor cos φ		0.95	
Efficiency η		0.97	
Sound pressure level (1m)		49 dB	
Power loss		33.8 W	
Filter class (integrated)		Class A	
<b>Communication</b>			
Communication		PROFIBUS DP	

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### Ambient conditions

Cooling	Air cooling using an integrated fan
Cooling air requirement	0.005 m <sup>3</sup> /s (0.177 ft <sup>3</sup> /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	-40 ... 70 °C (-40 ... 158 °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 <sup>2</sup> (AWG 24 ... AWG 16)
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#### Line side

Version	Plug-in screw terminals
Conductor cross-section	1.00 ... 2.50 mm <sup>2</sup> (AWG 18 ... AWG 14)

#### Motor end

Version	Plug-in screw terminals
Conductor cross-section	1.00 ... 2.50 mm <sup>2</sup> (AWG 18 ... AWG 14)

#### DC link (for braking resistor)

Version	Plug-in screw terminals
Conductor cross-section	1.00 ... 2.50 mm <sup>2</sup> (AWG 18 ... AWG 14)
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	FSAA
Net weight	1.40 kg (3.09 lb)

#### Dimensions

Width	73 mm (2.87 in)
Height	173 mm (6.81 in)
Depth	155 mm (6.10 in)

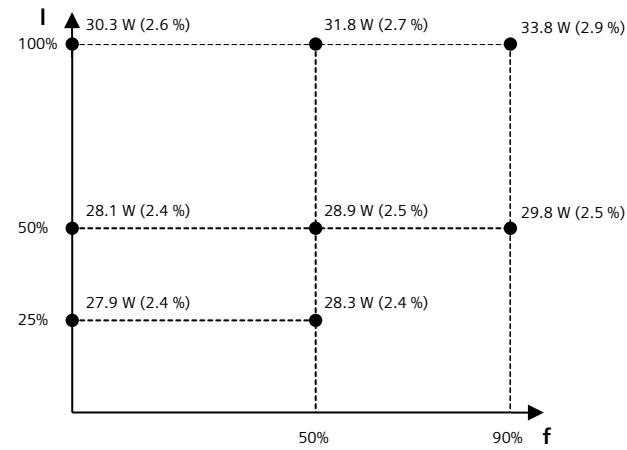
### Standards

Compliance with standards	UL, cUL, CE, 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
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Comparison with the reference converter (90% / 100%)	26.1 %
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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 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.

\*converted values

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